

IN THE CHANCERY COURT OF JACKSON COUNTY,

MISSISSIPPI

CAUSE NO. 94-1429

IN RE: MIKE MOORE, ATTORNEY GENERAL
EX REL, STATE OF MISSISSIPPI
TOBACCO LITIGATION

Property of: Ness, Motley
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DEPOSITION OF: HUGH W. LONG, MBA, Ph.D.
DATE: Wednesday, April 30, 1997
TIME: 1:00 p.m.
LOCATION: Phelps Dunbar
400 Poydras Street, 30th Floor
New Orleans, Louisiana
TAKEN BY: Counsel for the
State of Mississippi

Computer-Aided Transcription By:

A. William Roberts, Jr. & Associates
Charleston, S.C. Columbia, SC Charlotte, NC
(803) 722-8414 (803) 731-5224 (704) 573-3919

A. WILLIAM ROBERTS, JR., & ASSOCIATES

APPEARANCES OF COUNSEL:

ATTORNEYS FOR THE STATE OF MISSISSIPPI

SCRUGGS, MILLETTE, LAWSON, BOZEMAN
& DENT

BY: LEE E. YOUNG, ESQ.
734 Delmas Avenue
Pascagoula, Mississippi 39567
(601) 762-6068

AND

NESS, MOTLEY, LOADHOLT, RICHARDSON
AND POOLE

BY: WM. MICHAEL GRUENLOH, ESQ.
151 Meeting Street, Suite 600
Charleston, South Carolina 29402
(803) 720-9000

ATTORNEYS FOR THE STATE OF FLORIDA

FONVIELLE HINKLE LEWIS & GARVIN

BY: C. DAVID FONVIELLE, ESQ.
3375 Capital Circle Northeast
Building A
Tallahassee, Florida 32308
(904) 422-7773

ATTORNEYS FOR PHILIP MORRIS

SUSMAN GODFREY L.L.P.

BY: JOHN M. HELMS, ESQ.
2323 Bryan Street, Suite 1400
Dallas, Texas 75201-2633
(214) 754-1931

AND

ARNOLD & PORTER

BY: JONATHAN R. STREETER, ESQ.
555 Twelfth Street, N.W.
Washington, D.C. 20004-1206
(202) 942-6108

A. WILLIAM ROBERTS, JR., & ASSOCIATES

ALSO PRESENT:

CYNTHIA M. HOWLETT-WILLIS, MBA, MPH

REPORTED BY:

LINDY ROOT
Certified Court Reporter
Registered Professional Reporter

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1 HUGH W. LONG, MBA, Ph.D. - EX. BY MR. YOUNG

2 STIPULATION

3 It is stipulated by and among Counsel
4 that this deposition is being taken in accordance
5 with the Federal Rules of Civil Procedure; that all
6 objections except as to Notice of this deposition
7 are hereby waived; that all objections except as to
8 form are reserved until the time of trial; and that
9 the witness has waived the right to read and sign
10 the deposition after review by counsel.

11 * * * * * * * * * * * * * * * * *

12 HUGH W. LONG, MBA, Ph.D.

13 Being first duly sworn, testified as follows:

14 MR. HELMS:

15 I want to make a quick statement. I
16 understand that we have with us -- Is it Mr.
17 Bienville?

18 MR. FONVIELLE:

19 Fonvielle.

20 MR. HELMS:

21 He's from Florida and not counsel of
22 record. We object to him being here because it's
23 not provided for under the case management order.
24 I won't kick him out or anything. I want the
25 objection noted.

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1 This deposition was not noticed in the
2 Florida case. We will not let him answer any
3 Florida questions, anything you want to ask him,
4 any Florida specific cases. Anything you want to
5 ask him about his role that deals with the
6 Mississippi case, you are free to ask him.

7 MR. YOUNG:

8 We have no intentions to ask him
9 anything about the State of Florida. We have
10 likewise done the same thing allowing folks to sit
11 in for the defendants.

12 Is that it?

13 MR. HELMS:

14 That's it.

15 MR. YOUNG:

16 We have a preliminary statement. We
17 are taking Mr. Long's deposition today subject to
18 certain self-prescribed and certain guidelines
19 imposed by the court in the granting of a motion in
20 limine. The disclosure statement which has been
21 premarked Exhibit #2 to the deposition contains
22 areas that the State of Mississippi believes are
23 covered by the court ruling in the motion in
24 limine. We don't intend to go into those areas
25 today.

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1 However, if we inadvertently go into
2 those areas, it is not to be construed as a waiver
3 of our position with regard to our position. We
4 have attached our position with regard to the
5 paragraphs and what we intend to inquire of Dr.
6 Long today. He reviewed this piece of
7 correspondence and it is attached as Exhibit #3 to
8 the record.

9 MR. HELMS:

10 When did he review it?

11 MR. YOUNG:

12 A few minutes ago when you were out of
13 the room.

14 MR. HELMS:

15 Okay. I agree with your
16 characterization that any limitations are
17 prescribed by the plaintiff and not by us. I
18 disagree that the limitations are prescribed by the
19 court. You ask him whatever you want on his expert
20 report. If you don't ask him questions, you do so
21 at your peril, and Mr. Susman responded to that
22 position in a letter about a week ago. That would
23 represent our response.

24 EXAMINATION

25 BY MR. YOUNG:

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1 Q. Dr. Long, I introduced myself to you
2 actually about an hour ago. I am Lee Young on
3 behalf of the State of Mississippi in the case
4 filed by the State of Mississippi against the
5 tobacco industry.

6 Have you ever sat for a deposition
7 before?

8 A. Yes, sir.

9 Q. Are you familiar -- I'm sure your
10 counsel told you a little bit about how a
11 deposition works and has given you some guidance
12 with regard to this deposition. You understand
13 that you will have to give a verbal response to the
14 court reporter. She take can't take down nods of
15 the heads.

16 A. Yes, I do.

17 Q. Do you know that since there will be at
18 least the two of us communicating in terms of
19 questions and answers, it will be important to let
20 me finish my question or for me to let you finish
21 your answer. She can't take two people at the same
22 time.

23 A. I understand.

24 Q. If at any time you don't understand any
25 of the questions that I ask you, ask me to rephrase

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1 it. I want to make sure we are on the same page
2 when we respond to the questions. I'm sure counsel
3 told you many of the same points. I thought I
4 would go through them quickly before we got
5 started.

6 Have you had an opportunity to -- I
7 will hand you Exhibit #1 to the deposition.

8 Have you had an opportunity to review
9 that Notice of Deposition?

10 A. I have seen this.

11 Q. Do you see in the notice where it calls
12 for certain items to be produced?

13 A. Yes, sir.

14 Q. To the best your knowledge, have you
15 produced those documents?

16 A. To the best of my knowledge, these
17 documents were produced.

18 Q. Okay. May I see that, please?

19 A. Yes.

20 Q. So other than the additional documents
21 that were provided just immediately prior to the
22 deposition today by Mr. Streeter, we have all the
23 documents on which you intend to rely concerning
24 your opinions in this particular case?

25 A. All the documents that have been

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1 provided to me or that I have generated have been
2 shared, yes.

3 Q. The long and the short of it, I am
4 trying to make sure there are no other documents
5 that you would rely on in providing your testimony
6 in this case that have not been provided to us.

7 MR. HELMS:

8 I object. That's not a question

9 BY MR. YOUNG:

10 Q. Are there any documents that you intend
11 to rely on in providing your expert testimony that
12 you have not provided to us?

13 MR. HELMS:

14 I object. Calls for speculation.

15 THE WITNESS:

16 I would expect I will receive
17 additional documents -- for example, when the
18 models being proposed as mechanisms for measuring
19 damages are finalized and put forward, I would
20 expect to perhaps see additional transcripts of
21 depositions which have not yet been transcribed. I
22 would expect to be -- have access to information
23 that is presented during the plaintiff's case at
24 trial. All those things would be things that I
25 would expect to see in the future.

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1 BY MR. YOUNG:

2 Q. You just made a statement that any
3 additional models or versions of models prepared by
4 the state. What do you mean by that?

5 A. I have been advised that there have
6 been continuing revisions to some of the models.
7 I'm not sure if that process is finished yet or
8 not. Whenever that comes to rest, that I would
9 expect to have more information about the models
10 than I currently have.

11 Q. When you say the models, which specific
12 model are you referring to or which specific models
13 are you referring to?

14 A. Certainly would include potentially the
15 use of the model in the Max report, the Miller
16 model.

17 Q. When you say "Miller," you mean Vincent
18 Miller?

19 A. Yes. Yes. And the neonatal
20 study -- I'm drawing a blank on the name of the
21 gentleman.

22 Q. Dr. Oster?

23 A. Yes.

24 Q. Let me ask you this. With regard to
25 the models, so to speak, if that's what they are,

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1 concerning Dr. Max, in formulating your opinions
2 that you will talk about here today, what was the
3 latest report that you reviewed by Dr. Max?

4 A. Latest report I have from Dr. Max was
5 December 6, 1996.

6 Q. Well, you have not seen Dr. Max' report
7 that was prepared in April?

8 A. I am not aware of the April version.

9 Q. That's not been provided to you?

10 A. That's correct.

11 Q. How about what's the latest version of
12 Dr. Miller's report that you plan to offer opinions
13 about today?

14 A. March 7, 1997.

15 Q. We will reserve our right in the event
16 he finally receives Dr. Max' report which has been
17 previously, the final of her report which has been
18 previously provided to the defendants to conduct a
19 limited follow-up deposition with Dr. Long in the
20 event his opinions change once he's reviewed that
21 report.

22 MR. HELMS:

23 We will have to cross that bridge when
24 we come to it. The latest report came out this
25 month, I think, so many months after it was

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1 supposed to come out.

2 BY MR. YOUNG:

3 Q. What transcripts have you asked to see
4 that you have not seen?

5 A. I have not specifically requested any
6 particular transcripts at this point in time. I
7 have been advised that there have been some
8 depositions recently taken that have not yet been
9 transcribed which counsel plans to provide me.

10 Q. Who would those be?

11 A. I believe Dr. Miller was one of the
12 persons. I don't know that I have been given a
13 list of the individuals.

14 Q. Anybody within Medicaid that you have
15 requested be deposed?

16 A. I have not requested, no.

17 Q. That you requested a transcript of?

18 A. No. I made no request for
19 transcripts.

20 Q. We jumped ahead.

21 Would you put your full name on the
22 record, please?

23 A. Hugh W. Long.

24 Q. Your business address?

25 A. 832 Pine Street, New Orleans, Louisiana

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1 70118.

2 Q. Dr. Long, I will get, if you can,
3 please, to identify for me what's been marked as
4 Exhibit #2 to the deposition.

5 A. This is two pages, Rule 26 expert
6 statement, and attached to it a curriculum vitae
7 for myself dated January 6, 1997.

8 Q. Okay.

9 A. Twenty-three pages.

10 Q. Okay. Today at the beginning of the
11 deposition, among a couple of other documents was
12 another curriculum vitae. It's my understanding
13 that this is an updated version of your CV?

14 A. Yes.

15 Q. If we could mark that Exhibit #4,
16 please.

17 Can you identify Exhibit #4 for me,
18 please? Is that your updated CV?

19 A. That's the updated CV of April 12.

20 Q. Between Exhibit #2, the CV attached on
21 Exhibit #2, and the CV that has been marked as
22 Exhibit #4, what changes were made or what was
23 updated on those?

24 A. In addition to some updates on
25 addresses, the new CV includes my recent promotion

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1 to full professor. It includes my recent
2 appointment as the chairman of the Medicare
3 Geographic Classification Review Board. It
4 includes an additional report to Congress by the
5 Prospective Assessment Commission on which I sit as
6 a commissioner.

7 Those would be the significant
8 changes.

9 Q. Any additional publications that were
10 added?

11 A. No additional publications during that
12 period.

13 Q. Have you prepared a final -- a report
14 for this case?

15 A. I have not.

16 Q. Do you plan on preparing a report for
17 this case?

18 A. I have not been asked to prepare a
19 written report.

20 Q. So you have no plans the do that?

21 A. I have no plans to do that at this
22 time.

23 Q. Can you tell me, please, what the
24 Department of Health Systems Management at Tulane
25 is?

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1 A. It's one of six academic departments in
2 the School of Public Health and Tropical Medicine
3 which is one of the two academic schools at the
4 Tulane Medical Center; the other being the School
5 of Medicine. The Department of Health System
6 Management is the department that offers degree
7 programs in health administration. They offer MHA
8 degree, Masters of Health Administration degree in
9 two formats; traditional daytime in residence
10 program, and an executive MHA format.

11 They offer a Master of Public Health
12 degree with emphasis in management. They offer a
13 Master of Medical Management degree for physicians,
14 and a number of joint degree programs with other
15 divisions of the university; a joint MD/Ph.D.
16 degree with the medical school, JD MHA with the law
17 school, and MBA and PhD with the Freeman School of
18 Business.

19 Q. Your position at Tulane is within this
20 department?

21 A. My primary appointment is in the School
22 of Public Health in the Department of Health
23 Systems Management.

24 Q. You said primary. Do you have a
25 secondary?

1 A. I have joint appointments in the
2 Freeman School of Business, in the Tulane Law
3 School, and on the graduate faculty of the
4 university.

5 Q. Could you tell me, please, what is
6 health care economics? Can you define that for me?

7 A. Health care economics is basically a
8 subdiscipline of economics that focuses on matters
9 relating to the provision of health care and
10 medical care services, the organization of the
11 mechanisms for both providing those services and
12 paying for them.

13 Q. Do you consider yourself an expert in
14 the field of -- is it a field? Is health care
15 economics a field?

16 A. Yes. Health care economics is a
17 field. I bridge the fields between health care
18 economics and health care finance. Economics being
19 more the pure academic discipline; finance being
20 the more disoriented managerially oriented
21 prospective of the same phenomenon.

22 Q. Did you consider yourself an expert in
23 the field of health care economics?

24 A. Yes.

25 Q. Do you hold a degree in statistics, as

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1 a statistician?

2 A. No.

3 Q. Do you consider yourself an expert in
4 the field of statistics?

5 A. No.

6 Q. Do you use statistics in your work as a
7 health care economist?

8 A. Yes.

9 Q. How do you do that generally?

10 A. Generally, one uses various statistical
11 tools for analyzing information of a quantitative
12 nature. In economic research one uses various
13 statistical techniques to estimate relationships,
14 again, to analyze, and in some instances forecast,
15 various economic quantities or relationships in the
16 field. Very often in formal studies there will be
17 professional statisticians working with
18 economists.

19 Q. Let's backtrack for a second. You also
20 operate, you have a business called Hugh W. Long &
21 Associates. Is that correct?

22 A. I do.

23 Q. Where is that business located?

24 A. At the address that I gave the court
25 reporter.

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1 Q. Could you tell me that address on the
2 record?

3 A. 832 Pine Street, New Orleans,
4 Louisiana.

5 Q. Okay. When you gave that address, were
6 you referring to Hugh W. Long & Associates, and not
7 your address at the university?

8 A. That's correct.

9 Q. Those two are separate and apart?

10 A. Yes, they are.

11 Q. What is the business purpose, if you
12 will, of Hugh W. Long & Associates?

13 A. Hugh W. Long & Associates engages in
14 providing economic expert testimony in civil
15 litigation primarily in matters that are related to
16 the health care industry, and also as a second
17 activity provides educational seminars in the area
18 of health economics and finance primarily for
19 associations.

20 Q. How long has -- I suppose you're the
21 founder of Hugh W. Long & Associates?

22 A. That's correct.

23 Q. How long has that business, or is it a
24 corporation, a business?

25 A. It's a sole proprietorship.

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1 Q. How long has that sole proprietorship
2 been in existence?

3 A. In terms of the activities and
4 reporting as a sole proprietorship since about 1976
5 or '77. Using the name Hugh W. Long & Associates,
6 probably 12 to 15 years.

7 Q. What was the preceding name?

8 A. Hugh W. Long, Ph.D.

9 Q. Are those the only two names that this
10 particular entity has gone by?

11 A. Yes.

12 Q. You mentioned earlier that economists
13 sometimes employ or use statisticians in their
14 work?

15 A. Yes.

16 Q. Do you also do that?

17 A. I have not recently had occasion to
18 employ anyone in the statistics area.

19 Q. Have you in the past?

20 A. The last time that I did that was
21 probably more than ten years ago in conjunction
22 with doing an analysis of accessory turns on the
23 common stock of a company in a manner that was
24 unrelated to health care.

25 Q. Who was that statistician?

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1 A. That person was named David Harvey
2 doing a statistical analysis.

3 Q. Do you know who he was with at the
4 time?

5 A. His prior employer?

6 Q. Yes.

7 A. Tulane University.

8 Q. Do you know where he is today?

9 A. I believe he's still with the
10 university, but I'm not absolutely positive about
11 that.

12 Q. Have you applied or are you utilizing
13 in any way a statistician with regard to your
14 expert analysis and opinions in this case?

15 A. Not a professional statistician that's
16 under my control. The defendants -- I understand
17 the defendants have retained a number of
18 professionals, statisticians, and I expect to be
19 provided with some of their results when those
20 become available.

21 Q. Do you intend to rely on those in
22 formulating your expert opinion in this case?

23 A. I would expect that they would
24 corroborate or refute impressions that I have at
25 this point.

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1 Q. Okay. Who are those to your knowledge,
2 these statisticians that the defendants have hired?

3 A. I do not know the names or
4 identifications of any of these persons.

5 Q. Well, how do you know of their work?

6 A. I don't know who they are at this
7 point.

8 Q. Do you know if they are qualified?

9 A. I'm sure I will find out who they are
10 when there's something to be provided to me.

11 Q. Is that important to you whether or not
12 the statistician is qualified?

13 A. Certainly.

14 Q. When did they tell you they would have
15 some type of statistical analysis to you?

16 A. I was advised that I would see results
17 from that once the statisticians were provided with
18 the final models some subsequent period of time to
19 allow them to analyze them.

20 Q. You don't know who the statisticians
21 that we are referring to are?

22 A. I haven't asked and they haven't told
23 me.

24 Q. Did you tell them what kind of
25 statistical analysis you wanted?

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1 A. No, sir.

2 Q. You have not requested a statistical
3 analysis? What is your understanding of what they
4 are doing?

5 A. I presume they are going through the
6 code of the computer programs that have been
7 provided, looking at the formulas, looking at the
8 tests of significance, the usual things that I
9 would anticipate a statistician would do in trying
10 to verify the work of some other statistician.

11 Q. What are those?

12 A. What are those what?

13 Q. Tests, tests that you're referring to.

14 A. The ones I just listed.

15 Q. Tests of significance?

16 A. Tests of significance, understanding
17 the formulas that have been used, whether or not
18 they are consistent with what the builders of the
19 model purport that the model does.

20 Q. Well, what are tests of significance?
21 Can you tell me? Tell me what you would be
22 interested in seeing. Please keep it as layman's
23 terms as possible.

24 A. Since I have seen none of the
25 specifications of the model other than a list of

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1 variables and a very broad description of -- for
2 example, we have estimated coefficients for two
3 equations and one of them is a logit and one is a
4 probit period. That is all I have seen. I would
5 presume that after the coding for the equations and
6 the translations of the raw data into usable form
7 in the equations has been verified, that among
8 other things the statisticians would first of all
9 see if the construct of the mathematical equations
10 to estimate coefficients is correctly done in
11 accordance with the perimeters of those kind of
12 models.

13 Q. How do you do that?

14 A. There are -- I mean, that is the
15 substance of statistical analysis is that there are
16 formal equations and parameters for different kinds
17 of model building. There's different kinds of
18 regression analysis. There's different kinds of
19 specifications of variables, tests for goodness of
20 fit, levels of significance, R squares, adjustment
21 of R squares. Dozens of different things that one
22 does to ascertain that a model has been built in
23 accordance with the theory of that particular
24 mathematical approach and to look at the results
25 and see if they, in fact, are reasonably related to

1 the data that gave rise to them.

2 Q. So you anticipate then that these
3 statisticians, whoever they are, that the
4 defendants have employed will run an analysis on
5 goodness of fit, for example, the R squared
6 concerns of the model, the output of the model,
7 things of that nature?

8 A. I would expect that.

9 Q. Do you need that information in order
10 to render your expert opinions in this particular
11 case?

12 A. That kind of information would allow my
13 opinions to be more strongly held or less strongly
14 held depending on what the results were.

15 Q. But you have been able to formulate
16 opinions in order to give a deposition here today?

17 A. I have opinions.

18 Q. Concerning the models?

19 A. Concerning the models, the kinds of
20 concerns that, you know, that could be allayed if
21 statisticians report back that this is the greatest
22 model since sliced bread. There are things that I
23 am very concerned in the formulation at the general
24 level that I have seen.

25 Q. Who provided you the list of variables

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1 contained within the model?

2 A. Dr. Miller.

3 Q. Have you looked at the actual CD-ROMS?

4 A. No. I have looked at his report.

5 Q. What about the broad description?

6 Again, you are getting that from Dr. Miller?

7 A. Yes. From Dr. Miller's report.

8 Q. Have the defendants or any consultant
9 given you their description or their take on the
10 model?

11 A. No.

12 Q. Has anyone other than yourself and
13 anyone employed with Hugh Long & Associates given
14 you their description or their understanding of the
15 model?

16 A. No.

17 Q. Who are the clients, if you can tell me
18 generally, of Hugh Long & Associates?

19 A. Most commonly we are retained by law
20 firms most of which are in the New Orleans area,
21 and the area major client is the American College
22 of Physician Executives. That's on the educational
23 seminar side. Occasionally we do seminars for
24 other organizations, but those are usually one time
25 engagements as opposed to a continuing

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1 relationship.

2 Q. Who's your client in this case?

3 A. My client in this case -- I'm
4 actually -- I was originally retained by the
5 attorneys representing Philip Morris. My invoices
6 have been paid by several different law firms in
7 pro rata shares that they have determined among
8 themselves.

9 Q. Well, are you testifying for the law
10 firms, or are you testifying for the tobacco
11 companies, Doctor?

12 A. I have been retained by and receive
13 payment from the law firms who I understand are
14 representing Philip Morris among others, and I am
15 giving my expert opinion on the matters presented
16 to me in conjunction with this litigation and in
17 which the tobacco firms are the defendants.

18 Q. Do you consider yourself an expert for
19 Philip Morris?

20 A. My general philosophy about expert
21 testimony is that I am a friend of the court. I'm
22 not advocating anyone's position.

23 Q. My question is do you consider Philip
24 Morris your client in this case?

25 A. I consider Arnold & Porter my client.

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1 Q. Why? Because they are paying your
2 bill?

3 A. Because they retained me, and they
4 ultimately have responsibility for my fees.

5 Q. Is there something wrong with Philip
6 Morris being your client?

7 A. No. I have never talked to anybody
8 who's employed by Philip Morris.

9 Q. Have you ever done any consulting work
10 for the tobacco companies before?

11 A. No.

12 Q. Anything involving cigarettes?

13 A. No.

14 Q. How many people are employed at Hugh
15 Long & Associates?

16 A. Besides myself, two.

17 Q. Who are they?

18 A. Cynthia Howlett-Willis, Valborg Gross.

19 Q. Cynthia is present here at the
20 deposition here today, right?

21 A. Yes.

22 Q. What is her general background, or why
23 is she employed with Hugh Long & Associates?

24 A. Cynthia has dual master's degrees in
25 business administration and public health, and

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1 works as my primary associate in doing research,
2 data collection, data analysis in support of the
3 various engagements.

4 Q. And the other gentleman's name?

5 A. Woman.

6 Q. It's a woman?

7 A. Yes.

8 Q. I'm sorry.

9 A. Valborg Gross is primarily an
10 administrative person maintaining records, doing
11 invoices, keeping track of the files, occasionally
12 retrieving documents from the library, or making
13 phone calls to obtain information or to order
14 publications.

15 Q. So I take it then that it's really you
16 and Cynthia doing the analysis --

17 A. Cynthia and I --

18 Q. Let me finish.

19 You and Cynthia doing the analysis for
20 your opinions in this case?

21 A. That's correct.

22 Q. Did Ms. Gross contribute in any way
23 to -- in terms of doing -- analyzing data for
24 preparing reports generated in this case other than
25 maybe typing?

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1 A. She did not. I mean, she gathered some
2 information from libraries, but did no analysis.

3 Q. At your direction?

4 A. At my direction or Cynthia's
5 direction.

6 Q. Okay. Fine.

7 Have you met with any other experts
8 that are involved in this particular case?

9 A. I have not.

10 Q. Any consultants that are involved in
11 this particular case?

12 A. I have not.

13 Q. Attended any meetings where these
14 consultants or other experts were present?

15 A. I have not.

16 Q. When were you first retained by the law
17 firms in this particular case?

18 A. Approximately a year and a half ago.

19 Q. And that would have been sometime in
20 1995?

21 A. Right. Roughly October of 1995, I
22 believe.

23 Q. Who first contacted you?

24 A. The first person that I talked to was
25 actually a person, I believe, in the Jackson,

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1 Mississippi office of Phelps Dunbar. I believe his
2 name was Anderson.

3 He had obtained my CV from someone
4 else. I don't know who. He talked to me --

5 Q. Reuben Anderson?

6 A. Thank you. Yes.

7 Talked to me a little bit about my
8 background, my qualifications, whether I would like
9 to explore such an engagement further. I indicated
10 in the affirmative. He said that he would be
11 passing my CV along to other attorneys in
12 Washington, and I subsequently was contacted by
13 Murray Garnick, and after initial meeting with Mr.
14 Garnick I was retained to work on the matter.

15 Q. All right. So you have been working on
16 the matter about maybe a year and a half?

17 A. On and off during that period of time,
18 yes.

19 Q. I wouldn't normally ask you this. I
20 haven't been able to locate any correspondence that
21 would reflect your billing statements and things of
22 that nature. Just out of curiosity, have you
23 billed the law firms in connection with your work
24 in this case through Hugh Long & Associates?

25 A. I have.

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1 Q. To date if you can tell me generally
2 amounts that you have billed?

3 A. I really don't know what the total is.

4 Q. Is it more than 100,000?

5 A. I am certain that it is.

6 Q. Is it more than 200,000?

7 A. I believe it is.

8 Q. Is it more than 300,000?

9 A. I believe it is not.

10 Q. Is it more than 250,000?

11 A. I don't know.

12 Q. Give me your best estimate between 200-
13 and 300,000.

14 A. I would guess somewhere in the vicinity
15 of 250, but I don't know which side.

16 Q. Can you give me a general definition of
17 what a econometrician is? Have you heard that term
18 before?

19 A. Yes. My appreciation is an
20 econometrician is a person with a background in
21 economics who primarily relies on statistical
22 models for analysis for conducting studies, for
23 drawing conclusions.

24 Q. Is it a recognized field?

25 A. There are societies of

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1 econometricians. There may be some departments of
2 econometrics around. Most commonly I hear
3 departments of economics as being characterized as
4 more classical or more on the econometric side as
5 opposed to being sort of distinct fields.

6 Q. There may be a distinct field
7 necessarily in your opinion between economics and
8 being an econometrician?

9 A. My sense is that it really is sort of
10 two branches within the general umbrella of
11 economics as it's evolved over the last 30 or 40
12 years.

13 Q. Do you consider yourself an expert in
14 econometrics?

15 A. No, I do not.

16 Q. Does econometrics involve -- We
17 discussed models a little bit here. We will get
18 into them a little bit more.

19 Does it involve the construction of
20 models?

21 A. That would be my appreciation. That
22 would be one of the primary activities engaged in.

23 Q. When we say "models," what are we
24 talking about? What is your understanding in the
25 field of health care economics?

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1 A. Well, generally a model in economic
2 context is attempting to describe reality through a
3 set of typically mathematical relationships.

4 Q. I like that. I never heard it quite
5 put that way.

6 Attempts to describe reality in -- I
7 feel like I am in class taking notes. Attempts to
8 describe reality in --

9 A. In primarily -- in -- using a set of
10 primarily mathematical relationships.

11 Q. Can we call it modeling?

12 A. Sure.

13 Q. Is modeling something that is routinely
14 done in the field of health care economics?

15 A. It's certainly one of the activities
16 that is essential to research in health care
17 economics, in attempting to understand things like
18 the effects of different payment mechanisms,
19 different public policy options.

20 Q. It helps you quantify the results of
21 certain options. Is that right?

22 A. It may. It may allow you to make
23 quantitative estimates of dollar amounts, for
24 example, or things like access to care, how many
25 people will, in fact, be reached by care

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1 providers. Doesn't necessarily have to be
2 dollars.

3 Q. This is something that I was curious
4 about. Do all models use regressions, or are there
5 certain type of models that use regression
6 analysis?

7 A. Regression is one of the classes of
8 mathematical equations that can be used for
9 models. It's not the only one.

10 Q. What are some of the others?

11 A. There's a logistics which has a
12 technical meaning different than the common
13 language meaning models. There are probability
14 models.

15 Q. What are logistics models in layman's
16 terms?

17 MR. HELMS:

18 Let me just ask you to please let him
19 finish the question. It's hard for her to take it
20 down and it will make the record clearer. I'm
21 sorry to interrupt both of you.

22 BY MR. YOUNG:

23 Q. What in layman's terms is a logistic
24 model?

25 A. Simple regression models in their most

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1 basic form are looking for straight line linear
2 relationships. There are then a number of models
3 that attempt to modify that to allow what in
4 academic terminology is a relationship which says
5 that there are -- relationships change over a range
6 of values.

7 Logistics curves are one of a class of
8 curves that there are models that could predict
9 those kinds of relationships. There are
10 probability models that look at likelihoods as
11 opposed to absolute numerical linkages. There are
12 nonparametric models.

13 There are dozens of these things that
14 are developed sometimes in pure mathematics,
15 sometimes in statistics, and then tend to get
16 modified for different fields of study. You might
17 modify something for a study in physics would be
18 different than you would apply it to something in
19 economics.

20 Q. So then modeling as you just described
21 is something that is generally or routinely done in
22 the field of health care economics?

23 A. In the academic research side of the
24 field, right.

25 Q. I don't want to go down this road yet.

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1 I don't want to get lost in some other area and not
2 be able to get out of it right now.

3 Generally from your review of Vince
4 Miller's report, which type of model that you just
5 identified is it generally? What category would it
6 fall in generally?

7 A. His report makes reference to a couple
8 of different models. He talks about using a dummy
9 model and a probit analysis which is one phase of
10 the modeling. At another point, I believe, he
11 makes reference to a logit model for estimating
12 independent variables. He's using several
13 different ones in here. These are, at the risk of
14 some oversimplification models, that have descended
15 from and/or in some respects more sophisticated
16 than sort of the primary regression models that
17 would start out at the -- looking for linear
18 relationships.

19 Q. Okay. I got you. We will go into that
20 later. I wanted to generally try to get this in a
21 setting here.

22 It was real interesting a second ago,
23 you mentioned that the field of health care
24 economics in whatever branch we are dealing with
25 uses regression models and things of that nature in

1 order to help quantify -- can be used to help
2 quantity certain aspects of whatever the particular
3 issue is that you're dealing with. Is that
4 correct?

5 A. Yes. To attempt to make quantitative
6 estimates or to quantitatively describe what the
7 real world looks like.

8 Q. And they are estimates, is that right?

9 A. Yes.

10 Q. Are they to the penny?

11 A. Almost never.

12 Q. But still a scientifically valid
13 process in your opinion?

14 A. Well, any particular model will be
15 better or worse at, A, describing a particular set
16 of information, and, B, being useful in predicting
17 using other sets of information.

18 Q. Okay.

19 A. You can use a model simply as a
20 descriptive model. I would like to understand the
21 set of relationships in a given data set and stop
22 there, or you could say I would like to have a
23 model that I could apply to some new data set that
24 I don't know about yet. I will build it on this
25 set of information that I know about, and then move

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1 it to a new section to pre-select something. Those
2 are very different uses of models.

3 Q. Do you consider yourself -- I don't
4 think you do. Let me ask you anyway. -- an expert
5 in actuarial science?

6 A. I do not.

7 Q. What is your understanding of actuarial
8 science?

9 A. My limited understanding of actuarial
10 science is the forecasting of phenomenon in
11 populations particularly from the perspective of
12 risk management, so that you would typically expect
13 to see actuarial work associated with doing
14 something like setting insurance premiums where to
15 do that one needs to forecast for a population the
16 claims experience that would be expected such that
17 the premium would be sufficient to pay claims and
18 have a little something left over when you're
19 done.

20 Q. Maybe this is not right. Do you ever
21 use actuarial information in your work as a health
22 care economist?

23 A. As an input, you know. Things that
24 actuaries have produced. For example, when we talk
25 about Medicare risk plans and the policy

1 implications of having Medicare patients sign up
2 for an HMO like mechanism, we are using the output
3 from the actuaries at the Health Care Financing
4 Administration that forecast for us average per
5 capita costs in various geographic regions around
6 the country.

7 So we use that information. I use some
8 of that information. We don't generate it.

9 Q. So actuarial science is a completely
10 separate recognized field?

11 A. I believe it is. Certainly a separate
12 professional area. Professional societies,
13 professional certifications in actuarial science.
14 Separate schools even, separate degrees.

15 Q. I don't want to insult you on this next
16 one. I know you have a masters in about everything
17 in public health. Epidemiology, does that play a
18 role in your work in health management or health
19 care economics?

20 A. Epidemiology is clearly important to
21 health care management. Our students all take
22 epidemiology as part of their Masters of Health
23 Administration programs. I myself am not an
24 epidemiologist. Again, like actuarial information,
25 I use information produced by epidemiologists, but

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1 don't personally generate it.

2 Q. So I will ask you this question. Do
3 you consider yourself an expert in the field of
4 epidemiology?

5 A. I do not.

6 Q. You have generally relied on
7 epidemiological studies in the past?

8 A. Yes.

9 Q. Can you tell me in what context?

10 A. Again, in looking at issues surrounding
11 health, and particularly, again, in the risk plan
12 context of health maintenance organizations,
13 managed care, capitated plans, in looking at the
14 health characteristics of the population that they
15 seek to enroll in those plans.

16 Q. You just have gone five miles over my
17 head. I will come back and maybe we can try to be
18 a little more focused. You told me that you used
19 epidemiology in your work with -- Tell me again.
20 I'm sorry.

21 A. The instance that I had in mind is in
22 conjunction with the Prospective Payment Assessment
23 Commission where --

24 Q. Was that a project you worked on?

25 A. This is an advisory body to the

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1 Congress on which I sit as commissioner in
2 Washington.

3 Q. When would that have been?

4 A. It's ongoing.

5 Q. You used epidemiology routinely then?

6 A. In conjunction with that work, yes.

7 Q. All right. This is called the Advisory
8 Committee?

9 A. The Prospective Payment Assessment
10 Commission. It is --

11 Q. It hasn't gotten an acronym by now?

12 A. ProPAC. One of two advisory
13 commissions to the Congress on Medicare policy.

14 Q. Can you tell me from what you remember
15 which epidemiological studies you have used or
16 employed in your work with ProPAC?

17 A. Here what we have been looking at again
18 is data collected by the Health Care Financing
19 Administration that looks at the relative incidence
20 of various medical conditions and utilization
21 between those Medicare beneficiaries who chose to
22 enroll in capitated plans and those who chose not
23 to.

24 Q. The epidemiology would be in the form
25 of?

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1 A. Basically how healthy are those two
2 different populations as reflected in their
3 utilization of medical care services.

4 Q. Okay. So do you use epidemiology to
5 fill in the medical science portion of what you do
6 as a health care economist?

7 A. To a significant degree, yes.

8 Q. I guess like if I just go down to
9 basics, you would use epidemiology as your starting
10 tool as to causation in general, and then you would
11 attach the epidemiology and maybe quantify in
12 certain respects, or is that too general?

13 A. I am having trouble with the word
14 "causation." Basically epidemiology would report
15 to me relationships, associations, not necessarily
16 cause and effect.

17 Q. Fine. You would defer then to an
18 epidemiologist to say whether it was a causation or
19 an association?

20 A. Or to a medical researcher.

21 Q. Okay. Fair enough.

22 It sets up the medical reality of
23 disease --

24 A. Again --

25 Q. -- or the association?

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1 A. The associations and, you know, tells
2 you something about, you know, what you would
3 expect a particular population's disease
4 characteristics and consequently medical needs to
5 be.

6 Q. Okay. Then would you take that and
7 begin your work --

8 A. Yes.

9 Q. -- from there. Is that right?

10 A. That's correct.

11 Q. I think we covered this. I don't mean
12 to insult you by this. I have drawn myself some
13 general topics to cover. You don't have an MD, do
14 you?

15 A. That's correct.

16 Q. You don't consider yourself an expert
17 in the medical field, do you?

18 A. I do not.

19 Q. Okay. You said that you have been
20 involved with Hugh Long & Associates since the '70s
21 sometimes. How many times can you remember giving
22 a deposition, Dr. Long?

23 A. I probably have given 30 or 40
24 depositions over that period of time.

25 Q. How about actual courtroom testimony?

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1 A. Probably half that many.

2 Q. I may kick myself for saying this. Of
3 the 40 times can you remember if you were working
4 on the plaintiff's side or the defense side for
5 cases?

6 A. I don't remember specifically for the
7 depositions. In terms of matters we have been
8 retained in, it splits almost exactly 50/50.

9 Q. I had a feeling your answer would be
10 that.

11 You have been obviously in your work
12 with ProPAC which is a Congressional committee --

13 A. Commission.

14 Q. Have you worked with the state
15 legislature here in Louisiana?

16 A. I have never really worked with the
17 state legislature. I once testified before a
18 legislative committee here.

19 Q. Is that the only time you remember
20 testifying before a legislative committee?

21 A. Yes. At the state level.

22 Q. I marked your CV. Can you tell me if
23 you recall what that -- I have got it. We can
24 touch on it. Hang on. It's been a while back. I
25 think it was in 1977.

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1 A. Yes. A long time ago. Joint
2 Subcommittee on Health in January of 1977,
3 testifying about health care costs. I think
4 aggregate costs at that time. I really don't
5 remember much more about the testimony except they
6 were looking for explanations as to why health care
7 costs were going up so fast. They were worried
8 about it.

9 Q. That was in '77?

10 A. Right.

11 Q. Boy, they would be shocked today,
12 wouldn't they?

13 Was your testimony transcribed, or do
14 you know if it was published in any format?

15 A. I presume it was transcribed since it
16 was a formal hearing. I have never had a copy of
17 it.

18 Q. That would have been a formal hearing
19 in 1977 before the Louisiana --

20 A. Joint Health Subcommittee of the
21 Louisiana legislature.

22 Q. Any other states that you have
23 testified before their legislative or regulatory
24 bodies?

25 A. No.

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1 Q. Congress, have you ever testified
2 before Congress?

3 A. Yes.

4 Q. Could you tell me when? And I
5 apologize for not remembering explicitly on here.

6 A. Testified on the Senate side in the mid
7 '80s on legislation which I had a hand in drafting
8 related to the payment of capital costs to
9 hospitals in the Medicare program. Testimony on
10 the house side both before the Subcommittee, Ways
11 and Means Health Subcommittee, and the full Ways
12 and Mean Committee.

13 Subcommittee, again, had to do with
14 certain aspects of Medicare payment for hospital
15 services, and the full panel testimony had to do
16 with the changes in the overall pattern of health
17 spending in the United States reflecting changes in
18 managed care -- changes being caused by managed
19 care and changes reflecting the change of site of
20 care, location of care. Largely driven by
21 technology and payment systems.

22 Q. Okay.

23 MR. HELMS:

24 You want to take a break?

25 THE WITNESS:

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1 Sure. About that time.

2 (A break was taken.)

3 BY MR. YOUNG:

4 Q. Has Long & Associates done any work for
5 government?

6 When I say "government," I will give
7 you my definition. I mean county, or in your case
8 parishes, state and/or federal.

9 A. Only if government was a party to some
10 civil action. For example, I guess, you know if we
11 included parish owned hospitals and if Jefferson
12 Parish, East Jefferson General Hospital were a
13 party to a suit in which we were retained, in that
14 sense we were on their side, we would have been, I
15 guess, working for government.

16 Q. Do you remember working for East
17 Jefferson Parish Hospital?

18 A. Yes.

19 Q. When was that?

20 A. They were the defendant in an antitrust
21 suit filed --

22 Q. Yikes.

23 A. -- by an adjacent hospital in
24 conjunction with a preferred provider organization
25 that had dropped the plaintiff hospital and

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1 substituted the defendant hospital.

2 Q. What were you called upon to give
3 testimony on in that case?

4 A. I was called to opine on what the
5 intrinsic nature of the preferred provider
6 organization business was, how they operate, the
7 economics of putting together exclusive provider
8 networks, the public policy purpose of that, and
9 also whether or not had we gotten that far what
10 demonstrable damages, if any, there would have
11 been.

12 Q. Did you give a deposition in that case?

13 A. I did.

14 Q. What year was that?

15 A. I don't recall. It's been sometime in
16 the '90s.

17 Q. Early '90s, mid '90s?

18 A. I don't remember.

19 Q. Was it near '90 or near '95?

20 A. Probably nearer '95.

21 Q. Again, was your client East Jefferson
22 Parish Hospital, or was your client the law firm?

23 A. I don't remember who actually wrote the
24 checks. I think in that instance I may have been
25 contacted -- it was a funny case. There were two

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1 defendants; the preferred provider organization and
2 the hospital.

3 Within ten minutes I had calls from
4 both of them after the papers were filed. In one
5 instance I got a call directly from the
6 organization itself, and in one instance I got a
7 call from attorneys representing the other one.
8 And then they spent some time deciding which
9 defendant I was going to be working with.

10 Q. Who got you first?

11 A. Yes.

12 Q. Do you remember the law firm?

13 A. The law firm was Jones Walker, and
14 whether they wrote checks to me or whether East
15 Jefferson actually --

16 Q. Hang on a second.

17 A. In that case I worked very directly
18 with the executives of East Jefferson. I don't
19 really remember who wrote the check.

20 Q. Did you give a deposition in the case?

21 A. I did give a deposition.

22 Q. Did you keep a copy of the deposition?

23 A. If we ever received a copy, we have a
24 copy.

25 Q. Can I get you, please, if you can, to

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1 go back and try to find the style of the case, the
2 name of the case that you worked on in that
3 particular case, and provide that information to
4 me, please?

5 MR. HELMS:

6 I will take that under advisement. I
7 would prefer if you direct discovery requests to
8 me, and we will do what we can to find them for
9 you.

10 BY MR. YOUNG:

11 Q. Any other governmental entities that
12 you can recall providing expert work for?

13 A. A long time ago. This is probably back
14 in the '70s. I believe there are couple of
15 instances where I gave testimony at an appeal
16 hearing for certificate of need applications. I
17 think I did one in Florida. I did one in Baton
18 Rouge.

19 Q. Okay. Other than that?

20 A. I think that's it.

21 Q. Have you been retained to serve as an
22 expert in any other state tobacco cases?

23 A. I have been retained in Florida.

24 Q. How about Louisiana?

25 A. I have not been retained in Louisiana.

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1 Q. Were you asked to work on the Louisiana
2 tobacco case?

3 A. I have not been as of this date.

4 Q. Of the \$250,000 that you have been paid
5 thus far --

6 A. I'm not certain that I have been paid.

7 Q. Believe me, my experts are saying the
8 same thing.

9 Of the \$250,000 that you have billed
10 with regard to your expert testimony, is that
11 dealing solely in relation to your work for
12 Mississippi?

13 A. It is.

14 Q. How many meetings would you say that
15 you have had over the course of the year and a half
16 with the law firms representing the tobacco
17 companies?

18 A. Probably six or seven.

19 Q. Have they all taken place here in New
20 Orleans?

21 A. No.

22 Q. Where have they taken place?

23 A. I believe three of them took place in
24 Washington D.C.

25 Q. At the Arnold & Porter law offices?

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1 A. Yes.

2 Q. You told me already, and you correct me
3 if I'm wrong, no other consultants or other experts
4 were ever present at these meetings?

5 A. That's correct.

6 Q. Did Cynthia, and I should call you by
7 your last name, Howlett-Willis attend with you?

8 A. The Washington meetings, yes.

9 Q. Where were the other meetings, here in
10 New Orleans?

11 A. Here in New Orleans.

12 Q. I noticed on your CV that you had done
13 some teaching in North Carolina before or held
14 positions at UNC or Duke.

15 A. I was specially appointed at UNC Chapel
16 Hill for the purposes of being a member of the
17 doctoral dissertation committee of one of their
18 doctoral students.

19 Q. How did that happen?

20 A. The chair of that student's committee
21 because of the subject matter of the dissertation
22 was looking outside the university because they
23 didn't really have additional faculty there in that
24 particular subject area, and had, I think, out of a
25 committee of five, two from outside Chapel Hill,

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1 myself, and a person from the University of
2 Colorado.

3 Q. What about Duke University, or I may
4 not have seen that on there? I thought I saw Duke
5 University.

6 A. Nothing associated with Duke.

7 Q. You have never been employed with any
8 of the tobacco companies, have you?

9 A. No.

10 Q. Are you originally from Louisiana?

11 A. No.

12 Q. Where are you originally from?

13 A. Ohio.

14 Q. When did you move to Louisiana?

15 A. 1969.

16 Q. Have you ever worked for an insurance
17 company?

18 A. Only, again, in the sense of occasional
19 defense work and personal injury lawsuits.

20 Q. Okay. Have you done any consulting
21 work for an insurance company in terms of rate
22 setting or work in the health care economics field?

23 A. Other than I once gave an educational
24 seminar for some of the staff people at
25 Pan-American Life.

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1 Q. When was that?

2 A. In New Orleans.

3 Q. I'm sorry?

4 A. That would have been probably eight or
5 ten years ago.

6 Q. Do you remember what the seminar was
7 called?

8 A. No, I don't. The general subject was,
9 again, changing trends in the health care industry,
10 costs, and structure.

11 Q. Instead of going through every one of
12 your many publications and committees you served on
13 and everything, let me just ask you. In your work
14 that's identified within the CV, other than what
15 you are doing currently for the tobacco industry,
16 do any of your publications, testimony, seminars,
17 et cetera, deal in any way with the tobacco
18 industry --

19 MR. HELMS:

20 Are you finished with the question?

21 MR. YOUNG:

22 -- and/or cigarettes?

23 MR. HELMS:

24 I object to the question as
25 mischaracterizing his previous testimony. Go ahead

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1 and answer if you can.

2 THE WITNESS:

3 No.

4 BY MR. YOUNG:

5 Q. You have written and/or published with
6 regard to cost containment procedures. Is that
7 right?

8 A. Yes.

9 Q. Are wellness programs a form of cost
10 containment?

11 A. Generally we think of them that way.
12 There is some contrary evidence.

13 Q. Right. Are smoking cessation programs
14 part of a wellness program?

15 A. Could be.

16 Q. Okay. Do any of your writings or any
17 of your testimony or other work deal with wellness
18 programs that would include a smoking cessation
19 program or recommendations for smoking cessation
20 program?

21 A. No.

22 Q. Have you ever looked at the health care
23 costs associated with cigarettes and/or tobacco?

24 A. Only in conjunction with the work on
25 this matter.

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1 Q. I will assume your testimony also
2 includes your work within Tulane University and the
3 courses you teach within Tulane University?

4 A. Yes.

5 Q. None of the courses in public health
6 that you have taught or been part of deal with the
7 cost of products or anything of that nature which
8 would include cigarettes?

9 MR. HELMS:

10 Objection.

11 THE WITNESS:

12 I don't understand the "cost of
13 products."

14 BY MR. YOUNG:

15 Q. Well, the health care costs. Do any of
16 the courses that you teach or that you're involved
17 with setting the curriculum in any way involve the
18 health care costs of products to insurance
19 companies, to governmental programs?

20 A. That's as explicit items. We talk
21 about aggregate health care costs which would
22 include, you know, costs from all sources.

23 Q. Well, you're saying that means
24 implicitly they are there?

25 A. Right. When I say we spent 988.5

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1 billion dollars in health care in 1995 in the
2 United States, if there are costs associated with
3 particular products, that would be in there.

4 Q. Do you know whether there are costs
5 associated with particular products or not?

6 A. Undoubtedly costs associated with some
7 products.

8 Q. What is the field of health care
9 economics is the study of costs associated with
10 some products called? How would you term that?

11 A. I don't know that I have a label for
12 it.

13 Q. Well, if I wanted to look at costs
14 associated with a product, where would that fall
15 within the realm of health care economics?

16 A. Certainly a health care economist could
17 choose to attempt to study the costs associated
18 with any particular phenomenon.

19 Q. Let's deal with products. Okay?
20 Consumer products.

21 A. That would be a legitimate area of
22 inquiry for an economist.

23 Q. Has that ever been done? Do economists
24 study that?

25 A. Economists study that.

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1 Q. What type of products have you seen
2 that economists have standardized?

3 A. Generally that I'm aware of, costs of
4 things like alcohol, things like cigarettes, things
5 like illegal drugs, things like automobiles.

6 Q. In your recollection of studies that
7 have looked at the health care costs of cigarettes,
8 which studies do you recall?

9 A. I don't recall specific studies. Most
10 studies of that nature are things that I read about
11 generally in the Wall Street Journal or the New
12 York Times rather than reading the studies
13 themselves or hear about in media news reports or
14 see some general statements from sources like the
15 Centers for Disease Control and Preventions or hear
16 colleagues talking about.

17 Q. So you don't consider yourself an
18 expert in determining the health care costs of
19 cigarettes?

20 A. No, I do not.

21 Q. Some of your publications deal with
22 models. They have the actual term "models" in
23 there. Actually, I will identify a few of them for
24 you so we don't have to go through the CV. Generic
25 Model for Health Care.

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1 A. It must have said more than that.

2 Q. It probably did. I didn't want to
3 write the whole title.

4 Capital Asset Pricing Model, do you
5 remember that?

6 Portfolio Selection, A Three-Part
7 Model, do you remember?

8 A. Three-Parameter Model?

9 Q. You're right. I shortcut it again.

10 Capital Expenditure Review Model, do
11 you remember that?

12 A. I think I know what that refers to.

13 Q. And Long Range Hospital Planning Model,
14 do you remember that?

15 A. Yes.

16 Q. Are any of these models like the list
17 of models that you gave me earlier?

18 MR. HELMS:

19 Which list?

20 MR. YOUNG:

21 Regression models, logistic models,
22 probability models, and logit models.

23 THE WITNESS:

24 Could we go through the list one at a
25 time?

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1 BY MR. YOUNG:

2 Q. Yes, sir.

3 Regression models, logistic --

4 A. No. The list of the publications.

5 Q. I'm sorry. Okay.

6 This is all the result of a three-hour
7 plane ride.

8 A. I can identify a couple of them.

9 Three-parameter model was an extension of a model
10 developed by Harry Markowitz back in the early '50s
11 for portfolio selection, and --

12 Q. I don't want to interrupt you.

13 Extension of a model? You took someone's earlier
14 modeling work?

15 A. Earlier model which used two parameters
16 and extended it to three parameters.

17 Q. You refined it?

18 A. Refined or made an extension to, made
19 it more sensitive to some particular
20 characteristics. These happened to deal with
21 selection of common stocks.

22 Q. Is that done generally? Can economists
23 take someone's model and refine it or make it more
24 sensitive or things of that nature?

25 A. Yes. Yes.

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1 Q. Now, what type of mathematical
2 principles were present in this three-parameter
3 model? What kind of model was it in terms of the
4 types you described to me?

5 A. In the original Markowitz model, the
6 mathematical portion of it simply had to do with
7 alternative ways of calculating of the variability
8 in distributions. It was not any of the types of
9 models that we mentioned before of the econometric
10 type. This was a model that compared different
11 measures of dispersion, standard deviation,
12 variance, semi-variance, and the trade-offs between
13 risk characteristics and return characteristics in
14 selecting stocks for an investment portfolio.

15 Q. Okay.

16 A. What I did was with Dr. Dill, my
17 co-author, was refine the risk characteristics to
18 include a third dimension.

19 Q. If I wanted to look at that sucker,
20 where would I get that?

21 A. It was --

22 Q. Where would I get a copy of that?

23 A. In the proceedings indicated in the CV
24 it was printed which could very well be found in a
25 business school library.

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1 Q. Okay. Do you think Tulane's business
2 school has a copy of that?

3 A. It's possible.

4 Q. Let me think and go back to my list.
5 Did any of them, Generic Model for

6 Health Care or the Capital Asset Pricing Model --

7 A. The Capital Asset Pricing Model is a
8 model that was developed in the late '50s and early
9 '60s which, again, was a spin-off and extension in
10 a different direction of the Markowitz work. It
11 was good enough that Markowitz and the two people
12 who worked on the capital asset pricing model
13 shared a Nobel Prize for doing so in economics, and
14 the article that I wrote was taking that fairly
15 daunting piece of work and translating it into a
16 classroom so that you could actually present it to
17 students in an understandable way.

18 That was what that article was about.
19 Again, that model, I think, did, in fact, use some
20 regression, linear regression, and log normal
21 regression.

22 The Cost Quality Relationship Generic
23 Model for Health Care that I co-authored with Dr.
24 Clint is a conceptual model that was not
25 mathematically based.

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1 Did you have one more?

2 Q. Yes. Actually I had a few more.

3 Before we leave that three totally, that
4 three-parameter model, Markowitz model that you
5 talked about, was the Markowitz model published
6 with the literature?

7 A. Yes. Originally appeared in the
8 Journal of Finance in 1950 or '51.

9 Q. Was it peer reviewed?

10 A. Yes.

11 Q. I am assuming it met acceptable
12 criteria by the peers?

13 A. Yes.

14 Q. Then you took it and refined, made
15 refinement to the Markowitz model?

16 A. Yes.

17 Q. You said that was scientifically valid,
18 I think, in order to make such refinements to a
19 peer reviewed model?

20 A. Yes.

21 Q. Was your model subsequently peer
22 reviewed?

23 A. Not in the sense of a publication in a
24 refereed journal. It was reviewed by a panel for
25 the presentation at these academic meetings of

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1 where it appears in the proceedings.

2 Q. I guess, Dr. Long, the long and the
3 short of it, you don't believe that because your
4 refinements to the model were not peer reviewed
5 they were any less scientifically valid, do you?

6 A. I think the answer is yes. I
7 don't -- Read back the question.

8 Q. I'm sorry. That was a horrible
9 question.

10 Do you think the fact that your
11 refinement to your peer reviewed Markowitz model
12 were not peer reviewed make your refinement any
13 less scientifically valid?

14 A. I do not believe they were any less
15 scientifically valid.

16 Q. We talked about the capital asset
17 pricing model. You said it involved some
18 regression along with some other mathematical
19 things. Where is that? Is that where I can get a
20 copy of that?

21 A. It appeared in -- it developed over a
22 whole series of articles that were published in the
23 Journal of Finance, Journal of Financial and
24 Quantitative Analysis, the Journal of Financial
25 Economics during the period of time about 1967

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1 through probably 1978.

2 Q. Okay.

3 A. It's a whole collection of articles
4 reporting various steps in the process.

5 Q. Okay. The Portfolio Selection
6 Three-Part Model, is that the one we talked about?

7 A. Yes.

8 Q. Let's go back to the Generic Model for
9 Health Care. Did you find that one?

10 A. Yes. That was not a mathematical
11 model.

12 Q. Scrap that one then. What kind of
13 model was it?

14 A. I would just say conceptual. It was
15 hypothesizing certain relationships between cost
16 and quality, looking at different definitions of
17 quality. There was a follow-on to that which did
18 do some regression-type analysis. Let me find it.
19 Toward a definition of quality that I also did with
20 Dr. Clint which took that conceptual model and with
21 some survey data and attempted to discern some
22 relationships between physician decision-making and
23 outcomes, and that --

24 Q. Could you tell me where that is?

25 A. That used some mathematical analysis in

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1 it. That was published in Physician Executive in
2 1989.

3 Q. Can you tell me where?

4 A. On the new CV in the middle of Page 9.

5 Q. Let me grab the CV.

6 The emergency departments?

7 A. The one right below that.

8 Q. Toward a definition of quality. What
9 does the "R" stand for?

10 A. Refereed.

11 Q. So this was for -- you were applying
12 the results for what towards what? Was it a study?

13 A. It was a study that involved survey
14 data of physicians, and their decision-making as it
15 related to certain measures of quality.

16 Q. Okay. What context was the study going
17 to be used in? I guess the results of your
18 findings, how were they to be used?

19 A. We did not anticipate any particular
20 further application. This was a descriptive paper
21 to try to stimulate some thinking among physician
22 executives about the way in which they approach
23 patient care decisions.

24 Q. So the findings could have assisted any
25 hospital?

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1 A. Well, it was more in the instance of
2 physician decisions rather than institutional
3 decision.

4 Q. Any physicians?

5 A. Yes.

6 Q. Were they limited to the State of
7 Louisiana physicians?

8 A. No. The survey was national.

9 Q. Okay. This was a survey that you
10 conducted yourself? You took some survey data?

11 A. It was a mail questionnaire that we
12 developed and sent out to a non-random sample of
13 physicians, physicians who were in managerial
14 positions.

15 Q. Across the country?

16 A. Across the country.

17 Q. You could draw conclusions from the
18 across the country sample on physicians maybe
19 anywhere, managerial physicians anywhere within the
20 U.S.?

21 A. No. What we did was simply report what
22 our sample told us. We did some statistical
23 tests. The significance on that sample to indicate
24 that the numerical conclusions we were drawing, you
25 know, told us to a level of statistical certainty

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1 that we were accurately describing the responses
2 from the sample. We did not either suggest or
3 advocate that that had any predictive value with
4 respect to what some other sample of physicians
5 might respond.

6 Q. Let's go on.

7 I am totally lost now, out of that.

8 That's not your fault. That's my fault.

9 I think we had a few others on that
10 list. The Capital Expenditure Review Model, did we
11 talk about that one already?

12 A. We did not.

13 Q. Let me see if I can find it.

14 It's actually on Page 6 of your old CV
15 at the bottom. I will ask you about both of these
16 at the bottom.

17 A. Okay.

18 Q. Those were the last two left on my
19 list.

20 A. These were not papers that I authored.
21 These were papers authored by others that I was a
22 discussant of at academic meetings.

23 Q. Do you know what kind of models they
24 involved?

25 A. I frankly don't remember. It's been

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1 over 20 years ago.

2 Q. You didn't author them or anything?

3 A. No. I didn't author them.

4 Q. Okay. You also list on your CV from
5 '89 to '91 that you were involved somewhat with
6 the RWJ, Robert Wood Johnson Foundation. Do you
7 recall that?

8 You have a puzzled look on your face.
9 I will find it for you on here.

10 A. What category are we in?

11 Q. That, I don't know. Good deed doer
12 probably. Let's see.

13 It's under the "Other Academic
14 Activity." Actually on Page 13 of your prior CV.
15 Faculty member for the Robert Wood Johnson
16 Foundation program.

17 A. This was a program funded by RWJ at
18 Johns Hopkins that founded an educational program
19 which they called Faculty Fellows In Health Care
20 Finance. It was taking faculty members from
21 universities around the country or persons who were
22 in positions in government or foundations who may
23 have had training in management or may have had
24 training in accounting, but who were not familiar
25 with the particular characteristics of the world of

1 finance as it relates to health care sector.

2 They would spend several months in
3 seminars at Johns Hopkins in Baltimore, and then
4 had a field experience with a health provider
5 organization or a governmental organization in the
6 health arena. During these three years this grant
7 ran, I was invited to come to Johns Hopkins each
8 year for several days to participate in one of
9 those seminars as a member of the faculty. The
10 grant was not renewed at the end of the three-year
11 grant period. It disappeared.

12 Q. Okay. I see on your CV you were a
13 speaker at the Society of Hospitals Planning
14 Hospital Needs under a, quote, "competitive
15 market/government cutback scenario."

16 A. That was, I think, the spinoff from the
17 American Hospital Association. Let me see if I can
18 find it.

19 Q. Maybe I can help you find it on here.
20 That's what you get for doing so much stuff.

21 A. Yes. 1982, the Society of Hospital
22 Planning was a spinoff association from the
23 American Hospital Association, and this was a
24 society which had come in to being as a result of
25 public law 93461 which is a national health

1 planning legislation back in the '70s.

2 What was happening at this point in
3 time was a backing away from that regulatory
4 mechanism that had been fostered by that federal
5 legislation which was the move to certificate of
6 need legislation at the state level. A number of
7 states were beginning to back away from that, and
8 the question was as that happened, what was going
9 to happen to, you know, hospitals as they moved
10 into a more competitive situation where basically
11 you weren't going to get a franchise that this
12 hospital got to, you know, invest in this
13 particular expensive technology, but they couldn't
14 build more beds and this hospital could build more
15 beds, but they couldn't have the expensive new
16 technology to one where it would be more of a free
17 for all, and both hospitals could buy both things
18 if they wanted to at the time that the federal
19 government was beginning its serious retrenchment
20 in Medicare funding under the Tax Equity and Fiscal
21 Responsibility Act of '82, and the prospect of
22 prospective payment and so, you know, I talked
23 about at that meeting the, you know, what was going
24 to happen to hospitals, particularly nonprofit
25 hospitals, and their need to access capital to be

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1 able to remain competitive in an environment where
2 there was going to be less franchising of capital
3 expenditures and less public money in these
4 Medicare programs to fund that.

5 Q. Is it fair to say that your role as an
6 advisor and a teacher, speaker, advisor to
7 governments that you played a role in identifying
8 ways to contain rising health care costs?

9 A. I have played a role in that, yes.

10 Q. Do you have a -- I can look on the
11 CV -- a Masters in Public Health, too?

12 A. I do not.

13 Q. Your work with the Chancellor State
14 Health Affairs Committee --

15 A. That was within the university. The
16 chancellor is the chief executive officer of the
17 medical center, and this was a small advisory
18 committee that the chancellor of the medical center
19 put together as we moved in to the likelihood of
20 restructuring the relationships between the Charity
21 Hospital system and the medical schools here in
22 Louisiana which is very recently coming to fruition
23 in the current session of the legislature in which
24 the Louisiana State University Medical Center which
25 is also here in New Orleans will have

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1 administrative control over the Charity Hospital
2 system for the first time since that system came
3 into existence over 60 years ago.

4 This advisory group was ensuring that
5 in our discussions with the state legislature that
6 all of the considerations of that change of control
7 were fully recognized in terms of protecting the
8 teaching programs of Tulane University.

9 Q. Do you think changing this control of
10 the Charity Hospitals will help in terms of rising
11 health care costs?

12 A. I'm not especially optimistic about it
13 having a salutary effect on costs in this state.

14 Q. Why in your opinion as a health care
15 economist is it important to curve these rising
16 health care costs that you talked about today from
17 the public standpoint, not a private insurance
18 company standpoint?

19 A. I characterize myself as a
20 laissez-faire economist, meaning one that believes
21 that markets should be given a chance to work and
22 that you step in and intervene in those markets
23 only when the market proves that it can't work.

24 As such, there is from my perspective
25 no right or wrong level of health care costs in the

1 aggregate so that I don't concern myself
2 particularly with saying, oh, health care costs
3 ought to be 10 percent of gross domestic product or
4 12 percent of gross domestic product. That number
5 doesn't matter to me. What I am concerned about is
6 the mechanisms by which we get to whatever level of
7 health care spending, not the level itself.

8 The major policy concern that I have
9 expressed over the years is that in the way in
10 which we have paid for health care, we have in our
11 both private insurance mechanisms and in our public
12 payment mechanisms, and I really exclude Medicaid
13 here for reasons that I can detail if you're
14 interested, but for the population that has the
15 capacity to pay for at least some portion of their
16 health care services, our insurance mechanisms have
17 largely insulated the consumer of health care goods
18 and services, the patient, from their actual costs
19 by having very low deductibles, very low
20 co-payments by having first dollar coverage, by
21 having managed care prepaid plans so that health
22 care tends to look like a very low cost or even
23 free good.

24 Because it appears to be such a low
25 cost good, because it appears to be free, because

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1 that cost is not visited either on the physician
2 who ordered care and manages care or on the
3 physician or on the patient who receives it,
4 there's no disincentive to consuming care which is
5 only marginally valuable or perhaps not valuable at
6 all. Because it's free, we buy a lot of it, and we
7 bought too much.

8 I wouldn't care that health care is 13
9 percent of GDP right now if the way we had gotten
10 to that was by people spending their own money for
11 routine, ordinary services with insurance playing
12 the role of true insurance, and protecting against
13 high cost episodes, catastrophic events, you know.

14 I don't buy house insurance to pay for
15 cleaning the carpets every week. I buy house
16 insurance in case my house burns down. That's not
17 how we have behaved in the health care arena.

18 Q. Government funded health care, is it
19 important to curb health care costs of government
20 funded health care?

21 A. Depends on which government funded
22 health care we want to talk about. If we want to
23 talk about Medicare, for example, I think it is
24 critically important to constrain some of the
25 practices that you have engaged in in paying for

1 Medicare services for some people.

2 For example, we fund hospital care
3 under Medicare. We fund skilled nursing care. We
4 fund home health care under Medicare with a payroll
5 tax. So the guy flipping hamburgers in the fast
6 food joint for six bucks an hour is paying payroll
7 taxes that go into the trust fund that, among other
8 things, buys free medical care for rich people. I
9 have both a philosophical and economic problem with
10 that kind of wealth transference. I believe that
11 Medicare should be means tested, that we shouldn't
12 pay the same for rich people that we pay for less
13 rich people.

14 If you want to talk about Medicaid,
15 also governmentally funded, I think that is a
16 different, conceptually different program in which
17 by and large we are providing services for persons
18 who could not otherwise afford them and/or
19 providing funding so that health care providers
20 will physically be co-located with the population
21 needing the care. In other words, access question,
22 and I am much less concerned about the Medicaid
23 program as either an economic driver of costs or as
24 a philosophical reallocation of wealth than I am
25 about the Medicare program.

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1 Q. Is your testimony we should not curb
2 health care costs related to Medicaid?

3 A. My testimony is that we should exercise
4 all due diligence to ensure that we get what we are
5 paying for, that we avoid waste, inefficiency,
6 fraud, that we ensure that we focus on the public
7 policy objectives of the program which is to
8 improve the health status of that segment of the
9 population which is medically indigent and improve
10 their access to care, and as long as we have that
11 segment of the population, then I believe we should
12 spend what is necessary to efficiently provide to
13 them medically necessary care until such time as
14 their economic status changes so that they can join
15 the mainstream mechanisms.

16 Q. You mentioned improve the health of the
17 indigent population.

18 A. Their health status, yes.

19 Q. Is that a way to curb health care
20 costs?

21 A. No. If my only objective was to
22 minimize health care costs, then I would not
23 provide them any health care at all.

24 Q. That's not my question. Is improving
25 the health of the indigent population a tool in

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1 curbing health care costs?

2 A. In the aggregate, quite possibly. In
3 the Medicaid program itself, certainly in the short
4 run it is not.

5 Q. But in the aggregate meaning long-term?

6 A. Long-term and, you know, in the hope
7 that some of these people move out of the Medicaid
8 entitlement.

9 Q. I am not talking about the economic
10 status, Dr. Long. I am talking about their
11 health.

12 A. Then I misunderstood the question.

13 Q. Is improving the health of the indigent
14 population in the aggregate a tool in curbing
15 rising health care costs?

16 A. In the aggregate?

17 Q. Over the long-term.

18 A. In the long-term, it may reduce
19 aggregate health care costs.

20 Q. What is the American College of
21 Physician Executives? You mentioned that a couple
22 of times today. I have seen you actually authored
23 several publications that have appeared in their
24 journal. That is what exactly?

25 A. It's a personal membership association

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1 of physicians who are either currently engaged in
2 or aspire to be engaged in managerial positions
3 within the health care industry.

4 Q. You're a member of that organization?

5 A. I am an honorary member of the
6 organization. To be a real member, one has to be a
7 physician.

8 Q. Okay. Can we take a break?

9 (A break was taken.)

10 MR. HELMS:

11 Before you ask some more questions,
12 there was something Dr. Long wanted to mention
13 about something he had said earlier.

14 THE WITNESS:

15 I wanted to amend or add to one of my
16 answers to one of your earlier questions concerning
17 having done work with government.

18 BY MR. YOUNG:

19 Q. Okay.

20 A. Just to be very explicit. Obviously my
21 involvement with the Prospective Payment Assessment
22 Commission and the Degree Classification Review
23 Board is work for the federal government.

24 Also I neglected to mention in the past
25 I have also done work for the Orleans Levee

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1 District which is a governmental agency that is
2 responsible along with the Corp of Engineers for
3 the levees around the City of New Orleans, and I
4 have done consulting work with them in connection
5 with their self-funded employee health plan.

6 Q. The Orleans Levee Board?

7 A. Yes. Technically the Orleans Levee
8 District.

9 Q. When did you do that work?

10 A. That's been an ongoing engagement. It
11 probably stretched over seven or eight years now.

12 Q. It's ongoing?

13 A. Yes.

14 Q. Who is your contact at the Orleans
15 Levee Board?

16 A. The executive director is the direct
17 contact, and there have been two or three of those
18 in that period of time.

19 Q. Who would know you if I called the
20 Orleans Levee Board and said, "I would like to see
21 some work Dr. Long has done for you"?

22 A. The person who would be consistently
23 there throughout this period of time would be Peggy
24 Wheat. She's in the personnel area. Personnel
25 area. Carol --

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1 MS. HOWLETT-WILLIS:

2 Keifer.

3 THE WITNESS:

4 -- Keifer directly works with
5 insurance matters.

6 BY MR. YOUNG:

7 Q. What were you doing with their state
8 funded health plan?

9 A. Self funded.

10 Q. Sorry.

11 A. Over the years at various times they
12 put out requests for proposals for third party
13 administrators, for umbrella stop loss coverage,
14 for utilization review, and we have advised them on
15 the structuring of those RFPs and have also
16 assisted them in costing out the responses to those
17 RFPs and making recommendations to the board for
18 their consideration.

19 Q. Is that a state funded plan, or do the
20 employees fund it themselves?

21 A. It's a combination. Employees make
22 their deductions from employees' monthly checks
23 that go toward it, and then the district budgets
24 its own contributions. It is a self-funded
25 mechanism as opposed to going out and buying

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1 insurance on the market until very recently when
2 for the first time they have used a health
3 maintenance organization.

4 Q. When you say they contribute out of
5 their check, are they contributing for adding
6 dependents to the plan or contributing for
7 themselves, too?

8 A. For dependents.

9 Q. So the employees themselves are being
10 paid for by the state or by the Orleans Parish?

11 A. By the Levee District, yes.

12 Q. Does that state funded plan allow for
13 rate setting?

14 A. Historically the plans have embodied
15 preferred provider organizations which have
16 negotiated either fee schedules for per diems with
17 health care providers. It's been basically until
18 this past year a fee for service, fee schedule type
19 of plan.

20 Q. I guess maybe I didn't word my question
21 correctly. Do they, for instance, if someone is an
22 abusive drinker that's an employee of the Orleans
23 Levee Board, do they get a deduction at all for
24 themselves for being on the plan? Do they get a
25 deduction on the payroll? Do they have to

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1 contribute extra?

2 A. Do they have to pay more?

3 Q. Yes.

4 A. No.

5 Q. There is no rate setting with regard to
6 alcohol?

7 A. Inside the plan. The only
8 consideration on the rate setting or employee
9 contributions, if you would, is simply the nature
10 and number of dependents.

11 Q. Is another word for rate setting or
12 another way to describe it as risk allocation?

13 A. Or risk adjustments.

14 Q. There is no risk adjustments on that
15 plan?

16 A. That's correct.

17 Q. Have you advised putting in place risk
18 adjustments for that plan?

19 A. No, we have not.

20 Q. Have you advised one way or the other?

21 A. No.

22 Q. What are risk adjustments? What are
23 types of risk adjustments?

24 A. Such as you suggest, if there was some
25 particular characteristic of the insured person

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1 that there would be a change in the amount of money
2 required to participate in the plan.

3 Q. In your knowledge of health care
4 economics as it pertains to health insurance plans
5 or health plans in general, I guess, what are types
6 of risk adjustments?

7 A. That are actually implemented?

8 Q. Actually or may be implemented.

9 A. Generally the health sector has moved
10 away from risk adjusting on the individual level.
11 The jargon for that in the insurance industry is
12 experience rating. As a general proposition, that
13 has been looked upon with disfavor from a public
14 policy perspective in favor of what's called
15 community risk rating which is to establish
16 premiums or rates on a broader base and spread
17 individual risk throughout the risk pool.

18 The extreme form of experienced rating
19 is refusing to cover anyone at all, for example,
20 with a preexisting condition.

21 Q. What are some nonextreme forms of risk
22 adjustments?

23 A. Nonextreme forms would be what we see
24 in some other types of insurance like flood
25 insurance. If you're in the flood plane, you pay a

1 higher rate than if you're not in the flood plane.

2 Q. We are not talking about flood
3 insurance. I am directing my questions to health
4 insurance plans.

5 A. Someone who is HIV positive.

6 Q. Name some others.

7 A. Smokers, nonsmokers, persons engaged in
8 particularly dangerous activities, offshore worker
9 or someone who races automobiles, things like
10 that.

11 Q. Why is smoker, nonsmoker a risk
12 adjustment?

13 A. It has been used primarily as a risk
14 adjustment in things like life insurance because of
15 actuarial studies that show different life
16 expectancy for smokers and nonsmokers, and it
17 has -- I have never actually seen it implemented in
18 an employee -- employer provided health insurance
19 mechanism. Very often employers offer coverage for
20 smoking cessation programs at little or no cost to
21 employees on the theory it will lower the
22 employers' health care costs in the future.

23 Q. Why is that?

24 A. Why do they do it?

25 Q. Why would it lower their costs in the

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1 future?

2 A. The theory is that it would result in
3 fewer medical care claims if that employee stayed
4 with that employer over some long period of time.

5 Q. Why would it result in fewer medical
6 care claims?

7 A. I don't know that it would. I am
8 telling you what the theory is.

9 Q. Okay.

10 A. But, in fact, I have not actually seen
11 employers charge differential rates, or commercial
12 insurers for that matter, because of the very
13 strong public policy push to community risk rate.

14 Q. How many group health insurance plans
15 have you done consulting work for?

16 A. That's the only one.

17 Q. How many private insurance plans have
18 you done consulting work for?

19 A. Could you tell me what you mean by
20 "private insurance plans"?

21 Q. Personal health insurance as opposed to
22 group health insurance.

23 A. None.

24 Q. Where is that theory that you just
25 identified written or present? Where would I look

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1 to see this theory of eliminating smokers to save
2 medical care costs to my program?

3 A. I don't have a specific citation.

4 Q. How do you know about the theory?

5 A. That is the explanation that I have
6 heard for employers saying that they want to
7 include this as a benefit at no cost to the
8 employee.

9 Q. So you just in all your work --

10 A. That's what they tell me.

11 Q. In all your work as a health care
12 economist, just by word of mouth you have heard it?

13 A. I have not seen or looked for a
14 definitive study.

15 Q. Do you have any reason to disagree with
16 that theory?

17 A. I have no reason to agree or disagree
18 with that theory.

19 Q. Do you believe that human disease
20 results in health care services?

21 A. Treatment of human disease results in
22 health care services.

23 Q. And do those treatments or services for
24 that human disease result in expenditures?

25 A. By someone, yes.

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1 Q. Is there a difference between disease
2 in your opinion and other medical conditions? Do
3 you draw a distinguishing factor between disease
4 and other medical conditions?

5 A. Well, again, I'm not an expert in the
6 technical medical classifications. Things like
7 trauma. In some context they are considered
8 distinct from disease processes.

9 Q. For instance, do you consider things
10 like such as malnutrition, would you consider that
11 a disease, or would you consider that a condition?

12 A. Generally my lay appreciation is that a
13 disease would involve some particular agent
14 interacting with the human system that ill health
15 can derive from disease. It can derive from
16 general environmental conditions. It can arise
17 from trauma or accident to the body. It can derive
18 from genetic pre-conditions, but I, you know, the
19 formal drawing of bright lines along those various
20 categories and saying -- I know there are some
21 people in the public health area in my school who
22 would broadly define disease to include all manner
23 of public health phenomenon and some people who
24 wouldn't.

25 Q. I want your understanding. Okay?

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1 A. If you talk to a physician, he would
2 have a much narrower definition classically than a
3 public health person.

4 Q. A low birth weight baby, would you
5 classify as a disease if you were looking for the
6 disease expenditures? Is that a disease or
7 condition?

8 A. My inquiry would be what are the result
9 cost, and are those costs, the use of resources
10 something that occurs within what we define to be
11 the health care industry. If the answer is yes,
12 then it doesn't particularly matter to me whether
13 we happen to label it is disease or label it
14 something else. If it requires the use of
15 physician services or nursing services or
16 medications, then I'm interested in it.

17 Q. Do you think low birth weight babies
18 have higher expenditures, medical expenditures than
19 normal weight babies?

20 A. If they are talking about extremely low
21 birth weight babies, then they would have higher
22 expenditures than normal birth weight babies
23 because of the probable use of neonatal intensive
24 care for some period of time immediately subsequent
25 to birth, for example.

1 Q. Are you familiar with birth weight
2 categories? When you say extremely --

3 A. Again, in just informal conversations
4 or reading lay press, I know that there's often
5 dividing lines drawn around 600 grams for some
6 categorical purposes. I don't know the medical
7 basis for making or drawing the line.

8 Q. So do you have an opinion as to at what
9 weight a baby -- what lower weight a baby would
10 have higher medical expenditures than a, quote,
11 "normal weight baby"?

12 A. No, I don't try to make those
13 definitions. If someone presents to me a category
14 and says this is how we define it and here are the
15 expenditures for this group and here are the
16 expenditures for the other group, then, you know, I
17 don't try to invent the definitions.

18 Q. Have you done any systematic studies
19 with regard to low birth weight babies and their
20 medical expenditures?

21 A. No, I have not.

22 Q. Do you have an opinion one way or the
23 other whether cigarette smoking causes disease or
24 conditions, whichever way you want to phrase it, in
25 humans?

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1 A. From an economist perspective, I am
2 aware of very strong associations between smoking
3 in certain quantities, for certain periods of time,
4 and the incidence of some disease conditions. Very
5 strong associations in some instances, less strong
6 in others. Economics doesn't deal with the
7 causation per se.

8 Q. You relate that --

9 A. Which is a medical judgment.

10 Q. You leave that to the medical and
11 epidemiological community?

12 A. Yes.

13 Q. Do you have any reason to disagree with
14 your university's position on cigarette smoking and
15 the diseases it causes?

16 A. I'm not aware explicitly of my
17 university's position.

18 Q. Do you know what the university
19 position is?

20 A. I don't know what the university's
21 position is.

22 Q. Have you asked?

23 A. I haven't asked. I would be surprised
24 if they had one as the university.

25 Q. Is the medical center part of the

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1 Tulane University?

2 A. It is a part of Tulane University, yes.

3 Q. Let me rephrase it. Do you know what
4 the medical center's position is with regard to
5 cigarette smoking?

6 A. I don't believe they have taken an
7 official medical center position.

8 Q. If they have, I take it, you weren't
9 part of that decision-making process?

10 A. If they have, I was not.

11 Q. If cigarettes cause disease -- Let's
12 say your university says it does. Let's say your
13 university says it causes lung cancer,
14 cardiovascular disease, low birth weight babies.
15 Would you have a reason to disagree with that?

16 A. One of the joys of academe, we have
17 academic freedoms. One is not under an
18 employee/employer obligation to agree with an
19 administration about anything. I have no reason to
20 disagree or agree with that as a matter of
21 professional expert opinion.

22 Q. All right. Well, you earlier talked
23 about that you believe or you have seen literature
24 anywhere in your field that shows a strong
25 association between cigarette smoking and certain

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1 diseases.

2 A. Yes, sir.

3 Q. Less strong for some, more strong for
4 others. What is that based on?

5 MR. HELMS:

6 Objection to the question. It's
7 vague.

8 BY MR. YOUNG:

9 Q. Where did you learn of these
10 associations?

11 A. Again, from combinations of reading
12 general literature, from conversations with
13 colleagues.

14 Q. Let's stop first at general
15 literature. What general literature are you
16 referring to?

17 A. Reports of research that
18 appear -- reports that appear in things like the
19 New York Times or the Wall Street Journal or even
20 the local newspaper reporting on articles in the
21 Journal of American Medical Association or in the
22 New England Journal of Medicine.

23 Q. Do you consider the Journal of American
24 Medical Association an authoritative publication?

25 A. The portion that is refereed.

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1 Q. What about the Surgeon General's
2 Report?

3 A. The Surgeon General's Report would be
4 another item in that list of things.

5 Q. You're gleaning information on
6 associations here is what I am trying to get to.
7 Would you consider the Surgeon General's Report an
8 authoritative document in order to look for these
9 associations that you have talked about?

10 A. It would be a document carrying weight,
11 yes.

12 Q. Well, a lot of weight? Not a lot of
13 weight? Is it generally relied upon by health care
14 economists?

15 A. I don't know that health care
16 economists rely on any of these kind of things per
17 se. It would not in academe carry the same weight
18 as a refereed journal article. To the extent that
19 the surgeon general relied upon such studies,
20 controlled studies, studies performed by CDC&P,
21 then that lends additional authority and weight.

22 Q. Well, if the surgeon general compiled
23 every report from the CDC and every other report
24 and compiled it into one synopsis, would that be
25 authoritative to you?

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1 A. If the question is would that make it
2 more authoritative than the source material itself,
3 only in a political sense. Not in a objective
4 sense.

5 Q. How would it not be in an objective
6 sense?

7 A. Because the surgeon general noted any
8 empirical evidence, that is it merely reached a
9 judgment based on empirical evidence which is
10 directly accessible.

11 Q. Is that a reliable way to do it?

12 MR. HELMS:

13 Objection. Vague. Do what?

14 BY MR. YOUNG:

15 Q. Reach conclusions?

16 A. I have no objection to the surgeon
17 general doing that. All I am saying is that the
18 sum total of the individual studies, I would think,
19 speak for themselves. If it is desirable for broad
20 communications to the public to package those under
21 the good offices of the surgeon general, that's
22 fine. It doesn't make the original studies more or
23 less true.

24 Q. Can you tell me again the general
25 literature that you have looked and seen this

1 strong association between cigarette smoking and
2 disease?

3 A. Primarily media reports on controlled
4 studies conducted by the medical community.

5 Q. In looking at the issue of
6 epidemiology, for instance, when you're -- in your
7 work as a health care economist, you go to
8 newspaper reports first in order to get your
9 information concerning epidemiology? Is that your
10 primary source of gathering your epidemiology
11 information?

12 A. You asked me where I had obtained my
13 impressions about the associations between smoking
14 and disease. If the question is instead where
15 would I look for authoritative citations in doing
16 formal health economics work, then I would go
17 directly to the studies in the refereed
18 literature.

19 Q. Where do you go to find the studies?

20 A. I would probably do a Med Line search
21 to start with and go to the on-line or the paper
22 libraries and obtain copies of the publications
23 themselves.

24 Q. Other than newspapers and doing a Med
25 Line search, any other sources that you would like?

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1 A. Which purpose are we talking about?

2 Q. Your epidemiology arm of any kind of
3 health care economic study.

4 A. For health care economies work, I
5 wouldn't be using newspaper at all, of course. I
6 would be going to the original data sources.

7 Q. But in this case, your knowledge is
8 just that of accounts in newspaper articles, things
9 of that nature?

10 A. I have done the literature search I
11 just described. I am not, you know, being asked
12 to, you know, do research in this area.

13 Q. You mentioned a second ago you would go
14 straight to the original data sources.

15 A. To the publications.

16 Q. What type of data sources are we
17 talking about in order to look at the epidemiology?

18 A. We would be looking at basically the
19 medical or epidemiological literature done in
20 controlled studies that would seek to establish
21 causation. These would be articles that would
22 appear in refereed journals such as the ones I
23 mentioned as well as specialty areas. There could
24 be things in the American Journal of Public
25 Health. There could be things in the oncology

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1 literature. There could than things in the
2 journals of medical specialties dealing in these
3 areas, be it oncology or pulmonology.

4 I don't know an exhaustive list of
5 where those articles may have been published. You
6 know, that would not be a difficult thing to
7 ascertain.

8 Q. Let's get back to where we were. If
9 cigarette smoking does cause disease in humans and
10 disease requires medical services which result in
11 expenditures to someone, is it your opinion that
12 cigarette smoking in that scenario does cause
13 medical expenditures?

14 A. If it does cause medical expenditures,
15 yes.

16 Q. Do you have any reason to disagree with
17 that?

18 A. No.

19 Q. Do you believe cigarette smoking
20 results in medical expenditures?

21 A. I believe cigarette smoking results in
22 some medical expenditures.

23 Q. Do you believe cigarette smoking
24 results in higher medical expenditures for the
25 cigarette smoker than for nonsmokers?

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1 A. I don't know.

2 Q. Why do you not know?

3 A. Because if we are talking about total
4 medical expenditures for that individual, then if
5 smoking makes a difference in their health status,
6 in their life expectancy, in their cause of death,
7 then it becomes a very complicated question given
8 that everybody as far as we know is going to die of
9 something and as a general proposition it will cost
10 something to die. We are talking about a
11 difference in amount and difference in timing that
12 may or may not be larger overall. I don't know. I
13 just don't know.

14 Q. I understand. You just described for
15 me a lifetime analysis, haven't you?

16 A. Yes.

17 Q. What is a nonlifetime analysis called?

18 A. Well, in epidemiological circle, I
19 guess, we talk about incidents.

20 Q. And health care economy cost
21 evaluations is prevalence approach or incidence
22 based approach?

23 A. In economics we probably talk about
24 cross-sectional approaches as opposed to
25 longitudinal.

1 Q. Looking at two individuals in a given
2 year?

3 A. Right.

4 Q. Now, nonlifetime approach, two
5 individuals in a given year, does the smoker cost
6 you more than the nonsmoker in medical
7 expenditures?

8 A. May or may not depending on smoking
9 history, morbidities.

10 Q. Do you know one way or the other?

11 A. I don't know one way or the other.

12 Q. You would have to have more facts?

13 A. I would have to more facts.

14 Q. Have you ever done any analysis of
15 that?

16 A. I have not.

17 Q. As you said earlier today, you don't
18 consider yourself an expert in quantifying
19 cigarette health care costs?

20 A. That's correct.

21 Q. Have you constructed any econometric
22 models yourself?

23 A. For any purpose?

24 Q. Yes.

25 A. In my doctoral dissertation I

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1 constructed an econometric model.

2 Q. What did it look like?

3 A. The ratings assigned to domestic
4 utility bonds by Moody and Standard and Poors.

5 Q. Is your doctoral dissertation listed on
6 your CV?

7 A. I guess it's not. It's not.

8 Q. What is the name of it again?

9 A. I'm not sure that I will remember the
10 formal title correctly. I believe it is "An
11 Analysis of the Determinants and Predictability of
12 Agency Ratings of Domestic Utility Bonds."

13 Q. When did you complete your
14 dissertation?

15 A. In 1971.

16 Q. Is that at the Tulane library?

17 A. I don't believe it is at the Tulane
18 library.

19 Q. Where could I get a copy of your
20 dissertation?

21 A. At the Stanford University School of
22 Business library. It may also be available from
23 University Microfilms in Ann Arbor, Michigan.

24 Q. Any other econometric models?

25 A. No.

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1 Q. So do you consider yourself an expert
2 in econometric models?

3 A. No.

4 Q. Is there a separate field called survey
5 data, or can one become an expert in survey
6 information?

7 A. I am certain one could. I would
8 generally consider that probably some subset of the
9 general area of statistics.

10 Q. Do you deal with survey data?

11 A. I sometimes deal with survey data.

12 Q. Do you consider yourself an expert in
13 survey instrumentality, collection and application
14 of survey data?

15 A. Depending on the application or the
16 survey data, I may be an expert in that. I do not
17 consider myself an expert in instrument
18 construction or survey design.

19 Q. Is any of the testimony that you plan
20 to give in this case going to involve the
21 Mississippi Comprehensive Health Plan?

22 A. I have not been asked to do anything
23 concerning that aspect of the pleadings.

24 Q. Have you looked at any data from the
25 Mississippi Comprehensive Health Plan?

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1 A. Only what purports to be data from it
2 contained in Dr. Miller's report.

3 Q. Do you have any reason to challenge
4 that data?

5 A. I haven't looked at the data.

6 Q. Are you planning to?

7 A. I haven't been asked.

8 Q. What about University of Mississippi
9 Medical Center?

10 A. I haven't been asked to.

11 Q. UMMC?

12 A. I have not been asked.

13 Q. Do you have any reason to challenge
14 that data?

15 A. I have no basis for that.

16 Q. Do you plan to look at the data from
17 the UMMC?

18 A. Only if I'm asked to.

19 Q. Do you have any, or are you going to
20 provide any opinions with regard to the operation
21 of the Mississippi Comprehensive Health Insurance
22 Plan?

23 A. I have not been asked to do that.

24 Q. Have you reviewed any documents related
25 to the Mississippi Comprehensive Health Plan?

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1 A. I have not.

2 Q. Do you plan to offer expert opinions
3 with regard to the University of Mississippi
4 Medical Center in terms of its uncompensated health
5 care?

6 A. Only insofar as there is payment within
7 the Medicaid mechanism for uncompensated care.

8 Q. We are talking about DISH?

9 A. We are talking about DISH.

10 Q. But the general operation and charges
11 and things of that nature by UMMC, you're not going
12 to offer expert testimony?

13 A. I have not been asked to do that.

14 Q. Do you know what the smoking policy at
15 Tulane University is?

16 A. I don't know what the smoking policy at
17 Tulane University is.

18 Q. Did you have any input with regard to
19 the smoking policy or the establishing of the
20 smoking policy at Tulane?

21 A. No.

22 Q. Do you smoke personally?

23 A. I do not.

24 Q. Do you have children?

25 A. I do.

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1 Q. How old are your children?

2 A. Twelve and seven.

3 Q. Do they smoke? Does the
4 twelve-year-old? I hope the seven-year-old
5 doesn't.

6 A. To my knowledge, they do not.

7 Q. Are you married?

8 A. I am.

9 Q. Does your wife smoke?

10 A. She does not.

11 Q. Have you ever smoked?

12 A. No, I haven't.

13 Q. Are you any relation to -- You knew
14 this was coming.

15 A. Every deposition.

16 Q. -- to the former governor?

17 A. No relationship to the former governor,
18 blood or otherwise.

19 Would you like to buy a bridge?

20 (Off the record.)

21 BY MR. YOUNG:

22 Q. How did you familiarize yourself with
23 the Mississippi Medicaid program? You looked at
24 documents obviously. Is that right?

25 A. Yes. I looked at annual reports from

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1 the Mississippi Office of Medicaid. I looked at
2 the Title 19 State Plan, both current and previous
3 versions. I looked at filings of HCFA, forms filed
4 by the State of Mississippi with Health Care
5 Financing Administration.

6 Let's see. What else?

7 I looked at other studies that included
8 data on Mississippi such as the Kaiser Commission
9 on the future of Medicaid.

10 Q. What is Kaiser? Is it a corporation?
11 Is it a commission that funds different projects?

12 A. There are several different things
13 named Kaiser.

14 Q. Kaiser in this setting refers to what?

15 A. Refers to a commission which I don't
16 happen to know their funding history, but which
17 over the years has produced a number of reports or
18 white papers on various aspects of the Medicaid
19 program, generally as national documents, but
20 supported with information state by state.

21 Q. Did you rely on the Kaiser, this Kaiser
22 information in formulating your opinions?

23 A. In some of my comparison data and
24 statistical information, I have used information
25 from the Kaiser reports.

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1 Q. I am assuming you looked at the
2 documents from the inception of Medicaid if you
3 could find them through 1996?

4 A. Through the inception of Mississippi
5 Medicaid.

6 Q. That's what I meant. Through 19 --

7 A. Through actually we have some documents
8 more recent than 1996 such as budget requests for
9 fiscal year 1998. There are other -- I'm sure I
10 haven't given you an exhaustive list. That's all I
11 remember off the top of my head right now that are
12 Mississippi plan specific.

13 Q. You reviewed some testimony, some
14 transcripts?

15 A. Yes.

16 Q. Which ones do you recall reviewing?

17 A. I reviewed Dr. Courier's.

18 Q. She doesn't work with Medicaid, does
19 she?

20 A. I'm sorry. Did you just mean
21 Medicaid?

22 Q. That's okay. I just asked if she
23 worked with Medicaid.

24 A. No. She is a state epidemiologist for
25 Mississippi.

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1 I have seen Dr. Oster's deposition.

2 Q. Does he work with Medicaid?

3 A. Not with Mississippi Medicaid, no.

4 Ms. Patterson, I believe, with the
5 Mississippi Hospital Association.

6 One of the persons with Medicaid, Mr.
7 Peterson.

8 Is that right? I'm not sure if I have
9 the right name on that. I don't know that I have
10 that here.

11 Q. Bob Pilgrim maybe?

12 A. Pilgrim. Pilgrim.

13 Q. Is he the only testimony that you can
14 remember reviewing that actually worked at
15 Medicaid, at Mississippi Medicaid?

16 A. At Mississippi Medicaid, yes.

17 Q. Have you had contacts with any other
18 former or current employers of the Mississippi
19 Medicaid Division about the operation or the
20 running of the Mississippi Medicaid department?

21 A. No, I have not.

22 Q. Have you talked to your co-expert in
23 this case, James Lowry?

24 A. No, I have not.

25 Q. Have you talked to Mr. Billy Simmons,

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1 formerly an expert in this case?

2 A. No, I have not.

3 Q. Did you ask to see Mr. Pilgrim's
4 deposition?

5 A. No, I have not specifically requested
6 any of the depositions.

7 Q. Is it your opinion that you don't need
8 to communicate with anyone that has or currently
9 works at the Division of Medicaid in order to
10 render your opinions in this case concerning the
11 operation or management of the Mississippi Medicaid
12 program?

13 A. There may be some desirability to talk
14 to some of these individuals depending upon the
15 level of detail that we may wish to put forward at
16 trial in some of the areas that are the subject of
17 the motion in limine. In terms of the general
18 operation of the program and the level -- my
19 current appreciation that we wish to present in
20 terms of who was eligible for the program and what
21 SAFs were covered and how did that change through
22 time.

23 I feel that the formal documents
24 provide that description at least to the level of
25 detail that would be appropriate in describing the

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1 program.

2 Q. So you don't think it's necessary, in
3 those categories anyway, to discuss the operation
4 of the Mississippi Medicaid program with anybody
5 that's actually worked there or been involved?

6 A. For those subject -- for those
7 subjects, you know, I feel comfortable with the
8 formal descriptions.

9 Q. Could you delineate those subjects
10 again?

11 A. The categories of persons who were
12 covered?

13 Q. Eligibility.

14 A. Eligibility, the covered services, and
15 the payment mechanisms.

16 Q. Those three?

17 A. Yes.

18 Q. You never worked, have you, at the
19 Division of Medicaid in Mississippi?

20 A. That's correct.

21 Q. Have you done any consulting work for
22 the Division of Medicaid in Mississippi?

23 A. I have not.

24 Q. Have you done any consulting work for
25 any Medicaid Division?

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1 A. No.

2 Q. Have you done, other than your work in
3 this particular case, have you done any other
4 systematic studies of Medicaid?

5 A. No systematic studies.

6 Q. Have you written papers on Medicaid?

7 A. Not that have dealt with Medicaid as an
8 exclusive topic.

9 Q. Have you ever served as an expert
10 witness with regard to Medicaid?

11 A. Only coincidentally as, for example,
12 when a -- we would be involved in a case in which
13 an injured person happened to be medically
14 eligible.

15 Q. Have you ever testified as an expert
16 witness as to the operation or management of a
17 Medicaid division?

18 A. No.

19 Q. Have you ever set up or taken part in
20 setting up a Medicaid management information
21 system?

22 A. No.

23 Q. Have you ever prepared reports to the
24 federal -- any federal agency or federal government
25 in general concerning Medicaid?

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1 A. No.

2 Q. Anything else other than the documents
3 and the one transcript of Mr. Pilgrim that you have
4 reviewed with regard to Mississippi Medicaid or
5 Medicaid in general?

6 A. Other documents available from the
7 Health Care Financing Administration dealing with
8 comparisons across the 56 programs, the so-called
9 yellow book publication from the Energy and
10 Commerce Health Subcommittee on the subject of
11 Medicaid. There's a brief discussion of Medicaid
12 in the Ways and Means green book which is a similar
13 kind of publication.

14 Q. I'm sorry. I didn't mean to interrupt
15 you.

16 A. Again, there may be some others on that
17 list. As you know there were four boxes of things.

18 Q. Do you consider yourself an expert on
19 Mississippi's Medicaid Division?

20 A. I am not sure what you mean by Medicaid
21 Division as opposed to Medicaid program.

22 Q. Medicaid Division in Mississippi, do
23 you consider yourself an expert on the operation
24 and management of the Mississippi Medicaid
25 Division?

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1 A. If by that we mean the internal
2 workings of that governmental office, no, I do not
3 consider myself an expert in their internal
4 functioning.

5 Q. Do you consider yourself an expert in
6 their output?

7 A. If you mean by their output the
8 structure and functioning of the Medicaid program
9 in Mississippi, I feel I have an expert knowledge
10 of that program.

11 Q. Well, do you consider yourself an
12 expert with regard to HCFA 64 reports?

13 A. In terms of understanding what that
14 report sets forth and the information contained
15 therein, yes, I understand the nature of those
16 reports. As you previously asked, am I an expert
17 in the completion of those reports and the
18 gathering of the data for those reports, I would
19 not be.

20 Q. So you would have no reason to
21 challenge the data that went into making up the
22 reports?

23 A. Except to the extent that I might find
24 something that didn't foot or add up correctly. I
25 would have no reason to think that the information

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1 set forth was not a good faith effort to present
2 accurate information.

3 Q. In fact, the government routinely
4 relies upon the HCFA 64 and other reports produced
5 by Medicaid, doesn't it?

6 A. From every state.

7 Q. As a health care economist quantifying
8 costs, you generally look to reports of this
9 nature?

10 A. That's correct.

11 Q. You generally rely on those reports,
12 don't you?

13 A. Generally rely upon them, yes.

14 Q. When I say "these reports," I mean the
15 HCFA 64. Is that right?

16 A. Right.

17 Q. The 2082s?

18 A. Yes, 2082s.

19 Q. Any other reports?

20 A. There may be periodic reports from time
21 to time. Those are the routine reports that
22 contain health care information.

23 Q. That you would rely upon?

24 A. For cost purposes, yes.

25 Q. I have done a cursory review of some of

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1 the data collections that you have done. Did you
2 attempt to do a -- We will get into them in more
3 detail. I will have to attach them and get you to
4 explain them. Did you attempt to do a comparison
5 of Mississippi's Medicaid Division with other
6 states' Medicaid divisions?

7 A. No.

8 Q. Do you know whether or not
9 Mississippi's Medicaid Division and its operation
10 and management is unique in and of itself to other
11 state Medicaid divisions?

12 A. No, I don't.

13 Q. Do you plan to testify in any way with
14 regard to the efficiency of the management and
15 operation of the Mississippi Medicaid Division?

16 A. No, I have not been asked to do that.

17 Q. Do you plan to testify concerning fraud
18 in the Medicaid system?

19 A. In the Medicaid system, I would expect
20 to mention that in my description of the Medicaid
21 system.

22 Q. What about in the Mississippi system in
23 particular?

24 A. Only to the extent that that would be a
25 component part of any state's Medicaid operations.

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1 Q. Have you looked in particular with
2 regard to Mississippi?

3 A. Only to the extent there are numbers
4 reported in that category in the annual reports of
5 the state.

6 Q. Does the federal government require the
7 Division of Medicaid follow certain federal
8 regulations and guidelines in its operation of its
9 Medicaid program?

10 A. Yes.

11 Q. Have you done a systematic review to
12 determine whether or not Mississippi has complied
13 with those regulations and guidelines from its
14 inception to 1996?

15 A. No, I have not.

16 Q. Do you think that might be important in
17 providing your testimony?

18 A. I have operated on the presumption that
19 any significant lack of compliance would have been
20 noted in the review that HCFA conducts of various
21 state programs.

22 Q. Could you find any such?

23 A. Absent such information, I have
24 operated on the assumption that there was no, you
25 know -- absent some minor deviations here or there,

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1 general compliance.

2 Q. By Mississippi?

3 A. By Mississippi.

4 Q. So if you would have come across any
5 kind of notable noncompliance in your review of
6 these documents --

7 A. I would have expected to have had there
8 been major noncompliance, I would have expected to
9 have encountered that. I could have missed it.

10 Q. As we sit here today, Mississippi's
11 Division of Medicaid has complied with the federal
12 guidelines in the operation and management of its
13 programs?

14 A. Yes. There could be instances where
15 there could be lags which I never attempted to
16 explain completely because differences in the
17 Mississippi fiscal year and federal fiscal year and
18 not having spent time to go out and find out
19 precisely which things were supposed to change.
20 Sometimes things change six months later than I
21 thought they would. I have not pursued that.

22 Q. Generally they complied?

23 A. Generally they complied.

24 Q. Are you going to be talking about
25 overpayments made by the Division of Medicaid in

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1 Mississippi?

2 A. Not specific to the Division of
3 Medicaid in Mississippi. In the general
4 description of the Medicaid program, the fact that
5 error can occur and that there errors need to be
6 corrected and what happens when they recover
7 overpayments.

8 Q. You want to decrease your health care
9 costs by looking for the overpayments?

10 A. One would want to, you know, run a
11 program that had a minimum amount of fraud and had
12 a minimum amount of mistake.

13 Q. Within its budget constraints. Is that
14 right?

15 A. You would want a program that had a
16 minimum amount of overpayment and minimum amount of
17 fraud.

18 Q. You could do a lot of things if you had
19 unlimited resources, couldn't you, Dr. Long?

20 A. The economic judgment would be as long
21 as one was recovering more than one was spending to
22 recover it, you should be doing it.

23 Q. Don't certain of the ideas to decrease
24 fraud, to decrease overpayment, certain programs to
25 do that cost money, don't they, and require extra

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1 employees, don't they?

2 A. Of course.

3 Q. So in terms you would want to know your
4 budget constraints and work within your budget
5 constraints?

6 A. The economic analysis would say that
7 you would compare the cost of these programs to the
8 savings they would generate. As long as the cost
9 is less than the savings, you should pursue those
10 programs.

11 Q. And who within a division of Medicaid
12 would make this analysis?

13 A. I don't know who in specific. It would
14 be the responsibility of the director of the
15 division. I presume that some of that form of
16 analysis would be delegated within the
17 organization.

18 Q. Have you looked at Mississippi's budget
19 constraints?

20 A. I know what was appropriated by the
21 legislature each year.

22 Q. As an outside observer looking in on
23 the Division of Medicaid, can you tell Helen
24 Weatherby, the director, which extra fraud and
25 abuse control she could afford to make or would

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1 that be best left to her decision?

2 A. These kind of managerial judgments are
3 always better by the person supervising them.

4 Q. By the director?

5 A. Or someone within that office, yes.

6 Q. Where would overpayments made by the
7 Mississippi Medicaid Department if they were
8 detected, where would they be reflected?

9 A. When they were recovered? There is a
10 report that goes in to HCFA that lists recoveries.

11 Q. What's that report called, Doctor?

12 A. I don't recall the name of it. These
13 have to be reported back to the federal government
14 because you need to make an adjustment for the
15 federal share and the portion of the recovery.

16 Q. You don't recall where that is
17 reported?

18 A. I don't recall at this moment, that's
19 right.

20 Q. What about third party recoveries,
21 where is that reported?

22 A. In the same place.

23 Q. Do you recall where that is? What
24 document that is?

25 A. The same document I just didn't

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1 remember.

2 Q. Have you reviewed those documents for
3 the State of Mississippi?

4 A. I have not personally reviewed all
5 those documents.

6 Q. If you're testifying about fraud,
7 overpayment, third party recoveries, cost
8 containments, things of that nature, wouldn't you
9 want to look at those types of reports to see what
10 happened within Mississippi?

11 A. As I previously testified, you know, I
12 expect to testify as to those elements as part of
13 the general description of a Medicaid program, any
14 Medicaid program.

15 Q. You don't know specifically how that is
16 processed in the Division of Medicaid in
17 Mississippi, do you?

18 A. Only to the extent that it has been
19 reported.

20 Q. Where?

21 A. For example, in the annual reports,
22 there is in many of the annual reports, there are
23 specific entries that indicate the amount of
24 recovery from the fraud and abuse program.

25 Q. Do you know whether or not the

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1 Mississippi Medicaid program made adjustments in
2 their expenditures, stated expenditures as a result
3 of those recoveries?

4 A. On the assumption they have complied
5 with the existing laws and regulations from the
6 federal government, I would assume they were
7 properly reported.

8 Q. But you don't know what form that is
9 reported on?

10 A. Right now I don't remember which line
11 on which form it is.

12 Q. I want you to assume for me, Dr. Long,
13 that smokers cost more in a given year than
14 nonsmokers all things being equal. All right?

15 A. Okay.

16 Q. Would the relative cost be the same
17 between smokers and nonsmokers despite fraud and
18 abuse, mismanagement to a health plan or to the
19 Medicaid plan?

20 A. It would depend on whether or not the
21 smoker and the nonsmoker provided differential
22 opportunities to providers to commit fraud, for
23 example or whether the nature of services provided
24 were more prone to error in calculation or the
25 administrative process. Since we are providing

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1 different services costing different amounts of
2 money, we may be involved with different providers
3 and different payment mechanisms. There could be
4 differential fraud and abuse or mistake.

5 Q. Your position is it could be the smoker
6 or the nonsmoker perpetrating the fraud on the
7 system?

8 A. The fraud is perpetrated by providers
9 of services. We are talking about different
10 providers and different services. There could be
11 different propensities.

12 Q. You are looking at provider fraud to
13 either the smoker or the nonsmoker?

14 A. If we were talking about different
15 providers providing different services.

16 Q. I see. Have Medicaid costs been rising
17 among all states over the last 25 years?

18 A. Yes.

19 Q. Is Mississippi unique in its growth
20 compared to the other states?

21 A. Unique in the sense that its growth is
22 not exactly the same as anybody else. Its growth
23 has gone up as has the expenses in other states.

24 Q. Well, does it have a statistically
25 significant difference in growth compared to the

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1 other states?

2 A. Compared to the overall average of all
3 other states, I do not believe it is significantly
4 different from the mean. There are a couple of
5 instances where we will see some differences in
6 Medicaid costs viewed on a per capita basis in
7 Mississippi from the average of all states, but as
8 far as a general upper trend, it's like the overall
9 program.

10 Q. It's fair to say then, Dr. Long,
11 generally Mississippi's growth and Medicaid
12 expenditures is similar than that of the other
13 states?

14 A. Yes.

15 Q. Do you have your disclosure statement
16 in front of you?

17 A. Yes.

18 Q. You have one?

19 A. Yes.

20 Q. Okay. You said generally the growth
21 and expenditures was the same for Mississippi and
22 the other states?

23 A. Similar, yes.

24 Q. Tell me the distinguishing factors, if
25 you can, between where you say the manner in which

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1 the program varies between the states in paragraph
2 one. I am assuming you mean the Mississippi
3 program varies between the states?

4 A. Well, I mean here the fact that we have
5 a federal enabling statute that has, in fact,
6 produced 56 distinct Medicaid programs. The
7 Medicaid programs are different in all states and
8 territories and the District of Columbia.

9 Q. I think I understand this. The federal
10 government establishes a bottom threshold of who
11 you must cover and what services you have got to
12 provide. Is that basically correct?

13 A. And also some top thresholds in terms
14 of activities for which the federal government will
15 not chip in money.

16 Q. Okay. Do you know whether or not
17 Mississippi, the Division of Medicaid in
18 Mississippi, has been conservative in its
19 acceptance of covered eligibles? Conservative
20 meaning not allowing opening the doors for more
21 excessive numbers of Medicaid eligibles versus
22 other states?

23 A. At its inception in 1970, the
24 Mississippi Medicaid program came in above the bare
25 minimum, but not at the most generous levels that

1 were allowed under the federal statute.

2 Q. Would you say in the middle?

3 A. Probably slightly below the middle.

4 Q. So we would be on the conservative side
5 of eligibles in 1970?

6 A. Right. That position has become
7 slightly more centrist subsequently, but not,
8 again, at the upper reaches of what would be
9 possible which a few states have done.

10 Q. Here we sit in 1996, '97. Are we still
11 conservative compared to the other states?

12 A. In eligibility, I would say it's
13 probably not relatively less conservative than it
14 was in 1970, but still on the conservative side of
15 median.

16 Q. When we are talking about conservative,
17 meaning we don't have as many Medicaid eligibles on
18 our roles, right?

19 A. We are not talking about absolute
20 numbers. We are talking about the categories of
21 persons that are eligible for the program.

22 Q. Okay. Do you know how these categories
23 rank among the southeast states?

24 A. No. At this moment, I couldn't give
25 you a comparison with subsets of statements. We

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1 have all that data. I didn't look at it on a
2 regional basis.

3 Q. What would you consider the southeast
4 states? Texas to Florida and up to Tennessee or
5 what?

6 A. It could be --

7 MR. HELMS:

8 You include Texas in southeast?

9 MR. YOUNG:

10 Sometimes it is.

11 MR. HELMS:

12 If you understand the question, answer
13 it. I can't figure it out.

14 BY MR. YOUNG:

15 Q. If he has a different definition of
16 southeast.

17 A. I would be happy to include in
18 southeast whatever states you like.

19 MR. HELMS:

20 I didn't mean to get off on this.

21 MR. YOUNG:

22 You will be wanting to get in the SEC
23 before long anyway.

24 BY MR. YOUNG:

25 Q. What is your understanding if you were

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1 doing a comparison by region, what you would term
2 in looking at Medicaid divisions, what would you
3 term the southeast states?

4 A. I would use things generally east of
5 the Mississippi, although I might include
6 Louisiana.

7 Q. South of?

8 A. Probably for Medicaid purposes
9 currently I would exclude Tennessee because of its
10 special Medicaid program which would make it
11 difficult to make direct comparisons in any event.
12 I would probably go across and maybe include the
13 Carolinas south.

14 Q. You made a distinguishing remark when
15 we were talking about between eligibility,
16 conservative as far as eligibility, but you said we
17 are not talking about the number of enrollees.

18 A. I said that.

19 Q. Tell me why you made that distinction.

20 A. I believe you asked me do we have fewer
21 enrollees in Mississippi. That might be true, but
22 that doesn't have anything to do with the
23 categories. It has to do with Mississippi having a
24 smaller population.

25 Q. Or a poorer population?

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1 A. Well, then you are talking about
2 proportions. If you want to say how many people
3 are absolutely enrolled in Mississippi compared to
4 California or New York, New York would have a far
5 more conservative eligibility program than
6 Mississippi and still have a lot more people
7 because there's a lot more people in New York. I
8 was distinguishing between population and
9 categories.

10 Q. As far as the category of eligibles,
11 Mississippi still tends to be conservative?

12 A. Yes. Yes.

13 Q. What about as far as services go?

14 A. Very much middle of the road; not
15 conservative, not wildly liberal either. Pretty
16 consistently through time has offered a package of
17 services which is pretty consistent with the middle
18 of the road range among states.

19 Q. I believe your testimony was earlier
20 that you had done no systematic review or study of
21 the Mississippi Medicaid Division to determine
22 whether or not there's more fraud, more abuse, more
23 overpayments in the Mississippi Medicaid Division
24 than in other states?

25 A. That's correct. I have not done a

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1 systematic review.

2 Q. You're basing that portion of your
3 testimony on national reports of which Mississippi
4 would be included. Is that correct?

5 A. I'm sorry. Rephrase it.

6 Q. You're drawing conclusions about the
7 fraud, the overpayments, the abuse, the waste on
8 Mississippi from national reports on Medicaid in
9 general. Is that correct?

10 A. Well, in this area of the testimony, I
11 wouldn't characterize it as drawing conclusions.
12 Here I am merely describing, A, Medicaid program,
13 and, B, how the Medicaid program varies among
14 states, and, I guess, C, where Mississippi fits in
15 that spectrum across several dimensions.

16 Q. Are you planning on talking about
17 fraud, abuse, waste, mismanagement in Medicaid in
18 general?

19 A. The fact that these are concerns of the
20 program at a national level and that the federal
21 government encourages states to attempt to minimize
22 the extent to which these adverse factors increase
23 the cost of the program.

24 Q. Where does that -- tell me on your
25 disclosure statement where that fits in, which

1 Q. Have you looked at Mississippi in
2 particular?

3 MR. HELMS:

4 Objection. Asked and answered. I
5 don't know how many times he has to tell you. Go
6 ahead, if you can, and answer it.

7 THE WITNESS:

8 I have looked at Mississippi. I know
9 what Mississippi has reported in recoveries.

10 BY MR. YOUNG:

11 Q. Where does that reported recovery
12 appear?

13 A. One of the places it occurs is in the
14 annual reports of the Division of Medicaid.

15 Q. Are you going to do a comparison of the
16 fraud, abuse, waste, mismanagement, Mississippi to
17 other states?

18 A. I have no plans to do that.

19 Q. Do you know how Mississippi ranks in
20 these categories with other states?

21 A. I don't know as we sit here today.

22 Q. Paragraph 2 of your disclosure states
23 you say the reasons that Medicaid costs have been
24 rising since the Mississippi Medicaid program's
25 inception and the reasons that smoking does not

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1 explain those rising costs.

2 Does in your opinion smoking explain
3 any costs to the Medicaid program, Dr. Long?

4 A. Smoking may be associated with some of
5 the costs of the Medicaid program. The question
6 here has to do with the -- as we talked about a few
7 moment ago -- the increases in the costs during the
8 period under consideration.

9 Q. You said smoking may be associated with
10 some of those costs. What do you base that on?

11 A. The very same things we talked about
12 several times already.

13 Q. Tell me again.

14 A. Which are --

15 Q. I want to know in particular with
16 regard to the Division of Medicaid in Mississippi,
17 what you base your statement on that smoking may
18 explain some of those costs.

19 A. We are talking about the Medicaid
20 program costs, not the costs of running the
21 division.

22 Q. Are you talking about administrative
23 costs?

24 A. I am asking what you are talking
25 about.

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1 Q. Terms of health care expenditures?

2 A. Some of the health care expenditures in
3 the Mississippi Medicaid program are probably
4 associated with smoking. The question is what are
5 the increases in costs associated with. That's
6 what number two is dealing with.

7 Q. Well, my question to you is you said
8 some of those health care expenditure costs are
9 probably associated with smoking?

10 A. Yes.

11 Q. Didn't you say that?

12 A. You asked that question, and I said
13 yes.

14 Q. Okay. What do you base that statement
15 on?

16 A. Again, the kind of associations that we
17 have discussed several times that show that there
18 are disease processes that have a positive incident
19 related to smoking history, that require medical
20 intervention, and to the extent those happen in
21 Medicaid eligible persons, they become recipients
22 of care and that care costs money.

23 Q. Do you have any reason to believe that
24 the statement you just made is not occurring with
25 regard to the Division of Medicaid in Mississippi?

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1 A. Is not occurring? I have no reason to
2 believe it's not occurring.

3 Q. Do you believe that smoking is
4 responsible for certain of the health care
5 expenditures on Medicaid?

6 MR. HELMS:

7 Objection to the form. "Responsible."
8 Calling for a legal conclusion, and it's vague.

9 BY MR. YOUNG:

10 Q. You can answer.

11 A. I believe that there are expenditures
12 made by the Mississippi Medicaid program that are
13 strongly associated with health conditions related
14 to smoking by the Medicaid eligible person.

15 Q. Would you make that same statement for
16 the State of Mississippi's health insurance
17 program?

18 A. I don't know anything about the State
19 of Mississippi's health insurance program. If it
20 covers persons who were smokers, it's likely it
21 would be the same conclusion.

22 Q. What about with regard to charity care
23 of an indigent at a hospital in Mississippi?

24 A. Again, to the extent that it covered or
25 provided care to persons who were smokers, that's

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1 quite likely.

2 Q. As a health care economist, Dr. Long,
3 can you quantify these costs that you just
4 described to the Medicaid program?

5 A. Is your question can I personally, or
6 can it be done?

7 Q. Can it be done?

8 A. In theory it could be done.

9 Q. In what way?

10 A. One could -- one would -- one way would
11 be to obtain the medical records and claims for
12 each episode of care for each individual who has
13 received care within the Medicaid program since
14 1970 identifying those ICD-9 codes associated with
15 the Surgeon General's Report, and look at the
16 actual cost person by person.

17 Q. Okay. Well, what if you had 100 or 10
18 lung cancers, how would you determine which ones
19 were for smoking?

20 A. Certainly as a first step one might
21 want to ask which ones were smokers.

22 Q. Okay. What if you didn't have that
23 data, how would you make a reasonable estimate?

24 A. Well, the first point is then it would
25 become an estimate, not a determination.

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1 Q. You mean to the penny determination?
2 These are all estimates, after all, is what we are
3 talking about?

4 A. If I have historical records, you will
5 tell me exactly how much money you disbursed.

6 Q. If I don't have the data you just
7 described, how would I make an estimate?

8 A. In that particular -- in the case of
9 lung cancer, one would then, I presume, go to an
10 epidemiologist and look for longitudinal studies,
11 historical studies covering the period for which
12 the costs were incurred, and see what the
13 prevalence of smoking was among persons who were
14 diagnosed with lung cancer in 1973.

15 Q. Then just apply the mortality ratio
16 times the expenditure?

17 A. For the target population in that
18 period of time.

19 Q. That's scientifically sound from a
20 health care economist standpoint?

21 A. If one has a statistical basis,
22 sufficient sample size, ten wouldn't obviously be
23 enough.

24 Q. Right. Twenty wouldn't tell you
25 anything either?

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1 A. Twenty wouldn't be enough.

2 Q. From a statistical standpoint --

3 A. You need more.

4 Q. From a statistical standpoint, 20
5 individuals out of a population of say 500,000
6 tells you absolutely nothing?

7 A. It would not allow me to say that I
8 would have any level of confidence in the estimate
9 that you produced.

10 Q. What about 45 out of 500,000?

11 A. As soon as we start getting into
12 numbers in excess of 50, then we begin to generate
13 some level of confidence.

14 Q. The higher you go, the more confidence?

15 A. The more cases, the more confident.

16 Q. Under 50?

17 A. You would be very nervous about drawing
18 conclusions from that small a sample size.

19 Q. We just described taking the dollar
20 amount spent for certain diseases and applying the
21 epidemiological ratio of that disease to the
22 general population.

23 A. Assuming that we have the academic
24 medical studies that show a causative relationship
25 between smoking and lung cancer.

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1 Q. Can we call that like a mortality ratio
2 approach? What would you call it?

3 A. What we are looking at here is not did
4 they die or not, but how much money did we spend.

5 Q. Just getting a thumbnail on it,
6 approximation or estimate?

7 A. If in 1973 the Mississippi Medicaid
8 program provided medical care services for "N"
9 cases that were diagnosed as lung cancer whether
10 they died or didn't die in 1973, if we knew what
11 the costs were and we knew --

12 Q. By adding up the ICD-9 codes?

13 A. No. We added costs by looking at the
14 claim forms. We would know the diagnosis by
15 looking at ICD-9s.

16 Q. I got you.

17 A. If we could then with a reasonable
18 degree of statistical confidence say that "X"
19 percent of all lung cancer diagnoses are of persons
20 who have smoked two packs a day of cigarettes for
21 twenty years or longer, and then would have some
22 basis for saying this fraction of the treatment
23 cost for the diagnosis of lung cancer in 1973 could
24 be associated with that behavior.

25 Q. Cigarette smoking?

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1 A. Right.

2 Q. That sounds pretty basic to me.

3 What would be another way that you
4 would do it or could do it, I guess?

5 A. I'm sure there are dozens of ways one
6 could do it.

7 Q. Tell me some.

8 A. I don't know all of them. That's not
9 my field.

10 Q. I understand.

11 A. As one gets farther and farther away
12 from real data, you know, here are the medical
13 records, here are the ICD-9 codes and claim forms
14 that match up with these. Here's the amount of
15 money involved, and here's what we know about
16 smoking prevalence in some subpopulation in that
17 period of time. As one moves farther and farther
18 away from reality, one looks for surrogates,
19 substitutes, approximations.

20 Q. I guess, for instance, if you don't
21 have the smoking data on the population at issue,
22 you would look for a surrogate for that. Is that
23 correct?

24 A. Yes. That's where we segue into the
25 whole concept of modeling.

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1 Q. That's done? Modelers such as yourself
2 or health care economists extrapolate data when
3 they don't have data all the time, don't they?

4 A. Yes. You look for, you know, a real
5 world situation that is as close as you can come to
6 the one that you want to, you know, draw
7 conclusions about. If you can find out something
8 that is true about your study population and verify
9 it and cross check it and replicate it, then you
10 have at least got a shot at applying to some other
11 population.

12 Q. In fact, there's a lot of times you
13 have to do that because you don't have the data on
14 a certain population you're looking at. Isn't that
15 right?

16 A. There's a lot of times you don't have
17 the data and this may be your last resort
18 methodology. Sometimes it works, sometimes it
19 doesn't.

20 Q. That method or general method that you
21 just described is scientifically a valid method to
22 do?

23 MR. HELMS:

24 Objection to the phrase, "that
25 method." I'm not sure which method.

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1 BY MR. YOUNG:

2 Q. Extrapolating data from one population
3 to another that you don't have data on, if you take
4 into account the things you talked about, that's a
5 valid process?

6 A. The process is certainly a -- I'm
7 searching for a word. Valid means true. It is
8 certainly an acceptable -- both respectable and
9 acceptable process. Sometimes that process yields
10 usable results and sometimes it doesn't. That
11 doesn't mean the process is bad or there's
12 something wrong with the methodology per se.
13 Sometimes the world is so complex that you just
14 can't build a model that works.

15 Q. I see what you're saying.

16 A. That doesn't mean you shouldn't try.

17 Q. Right. When you say a model that
18 works, are you talking about something that
19 is -- you sound like you're talking about within
20 confidence intervals?

21 A. Yes.

22 Q. Like 95 percent confidence intervals,
23 is that right?

24 A. Whatever your ballpark precision that
25 you want. You can do it at 90 percent, 95 percent,

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1 98 percent.

2 Q. How far down can you go?

3 A. It's mathematics. It's a continuum.

4 What level of confidence is sufficient for the kind
5 of decision or analysis that you wish to make.

6 Q. Let me ask you this then. For
7 instance, does it help one then to look at a
8 situation from different viewpoints in order to
9 determine whether or not one way is -- the results
10 you're getting from various methods to determine
11 whether or not one method is reliable?

12 A. It certainly doesn't hurt to have
13 alternative models, alternative approaches. It
14 does not necessarily follow, however, that if two
15 quite different models give you the same result
16 that you have got a correct result.

17 Q. I understand.

18 How else could we quantify this
19 concept?

20 A. The only other thing that leaps to mind
21 at the moment is that one could begin a
22 contemporaneous study, and observing the fact that
23 historically nobody kept the data or nobody
24 collected the data or nobody thought about the
25 data, but sure would like to have the data from

1 this point forward is to build an information
2 system that captures the data here and now and
3 carries it forward.

4 Q. Have you asked your client, and when I
5 say "your client," have you asked Philip Morris if
6 you could see any of its documents, ask if they
7 ever quantified health care expenditures?

8 MR. HELMS:

9 I don't know why you continue to do
10 that. You know he testified his client is not
11 Philip Morris. He testified he was retained by
12 Arnold & Porter.

13 If you don't like the testimony, I'm
14 sorry. You're trying to change it. You know what
15 he said. You heard him. It's a game.

16 BY MR. YOUNG:

17 Q. Your client is the law firm, Dr. Long.
18 Have you asked the law firm to ask Philip Morris?
19 Is the law firm a defendant in this case? Do you
20 know?

21 A. I know they are not a defendant.

22 Q. Who is the defendant in this case?

23 A. One of the defendants is Philip
24 Morris. The defendants generally are tobacco
25 manufacturers and wholesalers operating in the

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1 State of Mississippi.

2 Q. Have you asked the law firm to ask
3 Philip Morris or any other of the tobacco companies
4 for any internal documents where they quantified
5 health care costs?

6 A. No.

7 Q. Would you like to see those in order to
8 see whether or not -- you talked about methods and
9 things of that nature, whether or not the tobacco
10 companies have actually quantified health care
11 costs?

12 A. I think it would be exceptionally
13 interesting from an academic point of view. For
14 the purposes of the lawsuit, what I have been asked
15 to do is look at the models that other people are
16 putting forward.

17 Q. Has the law firm -- Let me ask you
18 this. In the personal injuries cases that you have
19 testified concerning damages, and you have done
20 that before, haven't you?

21 A. I have.

22 Q. Do you ever get into a debate with your
23 opposing side as to the amount of damages in a
24 case?

25 A. Well, I wouldn't characterize it as a

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1 debate. There's difference of opinion.

2 Q. On the amount of damages?

3 A. On the amount of damages.

4 Q. Well, you have come up with the way in
5 those cases? You came up with the way in which you
6 calculate damages?

7 A. Yes.

8 Q. Okay. In this case, have you
9 calculated or attempted to calculate the amount of
10 damages for your law firm, your client, the law
11 firm, whose client is the tobacco industry?

12 A. No.

13 Q. Have you been asked to do that?

14 A. No.

15 Q. Did you find that strange?

16 A. No.

17 Q. Could you do that for them if they
18 asked you to?

19 A. To do that entire job would be beyond
20 my personal expertise. I could certainly manage a
21 process that involved numerous other experts.

22 Q. We could come up with a number?

23 A. And we could see what kind of model we
24 could build.

25 Q. Could you come up with a number that

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1 you --

2 A. I don't know whether I could come up
3 with a number that I would be willing to testify
4 to.

5 Q. But you think?

6 A. I have no idea I could come up with a
7 number. Would I feel in good conscience I could
8 get on a stand and testify that I really believe
9 this is a good estimate would depend on the results
10 of the model that we chose to explore.

11 Q. So your client hasn't asked you to do
12 that?

13 A. My client hasn't asked me to do that.

14 Q. Would you like to do that?

15 A. Not particularly.

16 Q. How come?

17 A. I am very busy right now, and have
18 limited capacity. If I were not doing anything
19 else and had the resources to retain the expertise
20 that would be needed in addition to my own, then it
21 would be an interesting project.

22 Q. Cynthia raised her hand. She wants to
23 do it.

24 Listen, you just said something -- you
25 would want to retain the expertise necessary in

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1 addition to yourself to do this project. Who would
2 you assemble? I don't mean names of people. I
3 mean types of people.

4 A. I would clearly want many of the areas
5 of expertise that we have identified today such as
6 epidemiologists, such as persons skilled in
7 interviewing and conducting surveys, certainly
8 statisticians, econometricians.

9 Q. Health care economists such as
10 yourself?

11 A. Some redundancy in that area would be
12 all right.

13 Q. Would you like an oversight panel?

14 A. If I was looking for -- the answer is
15 yes, I would.

16 Q. Do you know Jeff Harris?

17 A. No, I don't.

18 Q. Do you know Will Manning?

19 A. No, I don't.

20 Q. Ken Warner?

21 A. No.

22 Q. Okay. Dorothy Rice by any chance?

23 A. I have heard the name. I do not know
24 Dorothy Rice.

25 Q. I don't know how much longer you want

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1 to go today. Tomorrow we will have to go through
2 some things to identify what these things are. You
3 will probably be able to do it pretty quick.

4 A. I am willing to continue at this
5 point. It would be nice to get a break in. I
6 would like to make a phone call.

7 (A break was taken.)

8 BY MR. YOUNG:

9 Q. Paragraph 2, again, of your disclosure
10 statement. Before we got off on the tangent about
11 smoking -- I don't know why we were talking
12 about -- in your disclosure statement in that
13 paragraph, you said Medicaid costs have been rising
14 since the Mississippi Medicaid program's
15 inception. Is that correct?

16 A. That's correct.

17 Q. Other states' Medicaid costs have been
18 rising since their inception, too, isn't that
19 correct?

20 A. Correct.

21 Q. Is this category where we discussed
22 earlier that Mississippi generally would be about
23 the same as other states in terms of the rate of
24 their increase in Medicaid costs?

25 A. General increase would be similar to

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1 other states.

2 Q. When we are talking about costs in this
3 particular case or in your particular setting,
4 you're including both administrative and
5 expenditure costs. Is that correct?

6 A. We are talking about total program
7 costs.

8 Q. Would be administrative costs?

9 A. Would include administrative costs.

10 Q. Tell me what program, the categories of
11 total program cost.

12 A. In broadest terms, administrative costs
13 and costs of services for most of the years.

14 Q. Cost of services meaning health care
15 expenditures?

16 A. Right. And then other categories that
17 are in some sense none of the above like Medicare
18 buy-in, like DISH.

19 Q. Okay. Do you know if this lawsuit is
20 seeking to recoup any portion of administrative
21 costs?

22 A. No, I don't.

23 Q. Would that be relevant to your opinions
24 one way or the other?

25 A. With respect to number two?

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1 Q. Yes.

2 A. No.

3 Q. Do you know if administrative costs are
4 at issue in this case at all?

5 A. No.

6 Q. So taking administrative costs, for
7 instance, out of your equation, just looking at
8 purely health care expenditures, is your testimony
9 the same in other words with regard to just to
10 Medicaid or health care expenditures?

11 A. Some of the factors that cause the
12 health care expenditure costs to rise almost always
13 cause administrative costs to rise.

14 Q. Okay. Let's go to Paragraph 3. It
15 reads, "The many voluntary choices made by the
16 State of Mississippi that caused it to incur
17 Medicaid costs."

18 Is that, again, back in the area of
19 between the floor and the ceiling in terms of
20 eligibility criteria and services provided?

21 A. It includes that, yes.

22 Q. What else does it include?

23 A. It includes the choice to have the
24 Medicaid program at all.

25 Q. Okay. So in your opinion that is a

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1 choice of the state?

2 A. Yes.

3 Q. How many states don't have -- Is that a
4 wrong choice?

5 A. No.

6 Q. You're just saying that the State of
7 Mississippi experiences costs because it chose to
8 have a Medicaid program?

9 A. In part, yes.

10 Q. How many states don't have a Medicaid
11 program?

12 A. Today none.

13 Q. How would the indigent health
14 care -- Medicaid is for indigent health care, isn't
15 it?

16 A. For some indigent health care.

17 Q. How would that health care have been
18 handled had Mississippi not had a Medicaid program?

19 A. Some health care would have been
20 provided as it was historically and some is
21 currently based on the charitable inclinations of
22 providers of care.

23 Q. Meaning Charity Hospitals?

24 A. Could have been Charity Hospitals.
25 Could have been physicians giving care and not

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1 A. You would have some costs born by the
2 State of Mississippi; some costs born by the
3 private sector. You would probably have some
4 people who would not have the access to care that
5 they have today.

6 Q. We could have people dying in the
7 streets?

8 A. Not necessarily with the consequence of
9 mortality. With the consequence of morbidity.

10 Q. We could have diseased people in the
11 streets is what you're saying?

12 A. You could have people that were not at
13 the level of health status that they are today.

14 Q. Well, why don't states if it's going to
15 cost them less -- is it your position that it costs
16 you less not to have a Medicaid program?

17 A. The testimony here is that the decision
18 to have a Medicaid program puts certain economic
19 costs inside of a box called Medicaid.

20 Q. Okay. Do you know what the State of
21 Mississippi's constitution says about caring for
22 the sick and indigent?

23 A. No, I don't.

24 Q. You certainly don't propose not caring
25 for the sick and indigent, do you, Doctor?

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1 A. No, I don't.

2 Q. What are the other choices that we
3 didn't cover aside from deciding to have a Medicaid
4 program that resulted in Medicaid costs?

5 A. We already mentioned the choices
6 regarding eligibility and covered services. There
7 are also choices that can be made with respect to
8 rates of payment to providers of services. Also
9 choices with respect to the overall nature of the
10 system. Some states, for example, have chosen to
11 seek waivers under the federal statute and
12 institute managed care programs. Mississippi has
13 not at this point made that choice.

14 Q. They haven't?

15 A. They have not sought a waiver for a
16 statewide HMO, that's correct.

17 Q. A statewide HMO?

18 A. That's right.

19 Q. Do you know if they have done limited
20 HMOs?

21 A. I don't know.

22 Q. Would that be important before you make
23 the conclusionary statement?

24 A. My statement was they had not sought a
25 waiver for a statewide HMO.

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1 Q. The basis of your testimony or the
2 point of your testimony, my understanding is that
3 they should have put in an HMO in order to help
4 with costs?

5 A. No.

6 MR. HELMS:

7 I object to that as not being a
8 question.

9 BY MR. YOUNG:

10 Q. Correct me if I mischaracterized that,
11 please.

12 A. Number two is addressing the array the
13 choices that are available, have been, and are
14 available to states.

15 Q. Let's cover that again. Rates of
16 payment, one?

17 A. Right.

18 Q. HMOs, is that two?

19 A. Waiver options. Waiving the freedom of
20 choice so that one can have a statewide managed
21 care program like Arizona or Tennessee.

22 Q. Is that HMO?

23 A. That's one mechanism for HMO, yes.

24 Q. All right.

25 A. Eligibility, covered services, choosing

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1 to have a Medicaid program of the traditional type.

2 Q. That's what we have, isn't it? Right?

3 A. Yes.

4 Q. We have the traditional Medicaid
5 program?

6 A. Yes.

7 Q. How many have a nontraditional Medicaid
8 program, how many states?

9 A. About 12 right now.

10 Q. We talked already about eligibility and
11 covered services. With regard to HMO statewide
12 waiver, how does a state Medicaid program determine
13 whether or not an HMO is feasible for that
14 program? Do you know?

15 A. I don't know the mechanics of how
16 particular states may have chosen to analyze that
17 question.

18 Q. Are you saying we could have taken
19 advantage of this and had the statewide waiver and
20 allowed HMOs into the Medicaid program?

21 A. Mississippi could have applied for a
22 statewide waiver such as Tennessee, for example.

23 Q. Because it didn't, it's experiencing
24 increased costs, is that your testimony?

25 A. It might be incurring additional costs

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1 it would not occur if it were in a managed care
2 mode.

3 Q. Either it is or it isn't. Do you know,
4 Doctor?

5 A. I don't know.

6 Q. You don't know whether or not putting
7 in HMOs would have saved the state any money at
8 all?

9 A. I know that when we look at the per
10 capita costs in Tennessee, for example, post-HMO
11 versus pre-HMO, that the rate of increase has been
12 slow.

13 Q. So you're saying that the State of
14 Mississippi should put in HMOs. Is that what
15 you're saying?

16 A. That's the choice the state should
17 explore.

18 Q. Do you know whether they have explored
19 it?

20 A. No, I don't.

21 Q. Have you asked anyone at the State of
22 Mississippi's Medicaid Division --

23 A. No, I haven't.

24 Q. -- whether they explored it?

25 A. No, I haven't.

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1 Q. Have you looked at any documents
2 regarding whether or not they explored the
3 implementation of HMOs?

4 A. I have not.

5 Q. Is the decision to implement HMOs
6 better left to the immediate director of the
7 Medicaid program?

8 A. All these decision are made, if not by
9 the director, state legislature.

10 Q. They would be in a better position to
11 determine whether or not HMOs are feasible for
12 their program, wouldn't they?

13 A. My testimony is not to say that an HMO
14 is feasible or not feasible. My testimony is to
15 say that this is an option available to every
16 state. It's a choice which each state can make,
17 and the states which have made the choice, we can
18 see certain things about them.

19 Q. You're saying the State of Mississippi
20 should have made that choice. Didn't you say that
21 already?

22 A. No, I didn't say that already.

23 Q. I believe your earlier testimony that
24 the State of Mississippi in your opinion should
25 implement HMOs?

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1 A. I did not intend to say that. We could
2 read back the transcript.

3 Q. You don't have an opinion whether or
4 not they should implement HMOs?

5 A. I have an opinion there is the
6 potential for cost savings with managed care.

7 Q. Have you looked at any studies
8 regarding the outcomes of Medicaid programs or
9 other programs that have implemented HMOs when they
10 weren't ready to do it?

11 A. I don't know of any that weren't ready
12 to do it.

13 Q. Have you looked at any studies
14 regarding the outcomes of insurance programs or
15 Medicaid divisions that have implemented HMOs when
16 they weren't ready to handle HMOs?

17 A. I have seen no such studies.

18 Q. My question, again, is the director of
19 Medicaid in a better position to determine whether
20 or not HMOs are feasible in their system than you?

21 A. I do not know about the qualifications
22 or expertise of a particular director of Medicaid,
23 but certainly additional information would need to
24 be gathered by the state to explore the
25 feasibility.

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1 Q. You don't know whether Mississippi has
2 explored that feasibility, do you?

3 A. I don't know.

4 Q. Or the conclusions of any such
5 feasibility study?

6 A. I do not.

7 Q. Do you know if they are participating
8 in a limited basis in HMOs?

9 A. I do not know.

10 Q. We talked about the rates of payment.
11 Is that rate setting? Not in terms of the
12 insurance way we discussed earlier.

13 A. It could be rate setting or it could be
14 methodology.

15 Q. Is Mississippi doing it wrong in your
16 opinion?

17 A. No. I am just saying Mississippi has
18 choices to make with respect to payment
19 methodologies and payment rates.

20 Q. You reviewed the methodology and rates,
21 haven't you?

22 A. Yes.

23 Q. Have you done a cross comparison
24 between Mississippi and other states?

25 A. In terms of methodologies, I have not.

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1 Q. How about in terms of -- have you done
2 any comparison?

3 A. In terms of aggregate costs and limits
4 per -- per recipient, we have some comparisons.

5 Q. How does Mississippi rank in those
6 comparisons?

7 A. Basically in about the middle.

8 Q. From what I can gather so far that we
9 covered with regard to your review of the
10 Mississippi Medicaid program, one, it's met federal
11 regulation and guidelines to the best of your
12 knowledge. Is that correct?

13 A. As far as the things that I have seen
14 show consistence with eligibility and coverage
15 parameters.

16 Q. Did you tell me earlier that
17 Mississippi's Medicaid Division to the best of your
18 knowledge after reviewing the annual reports and
19 other documents related to this Division of
20 Medicaid, that to your knowledge it met the federal
21 regulations and guidelines?

22 A. In these areas, yes.

23 Q. Do you know if it's not met in any
24 other areas?

25 A. I did not know in other areas.

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1 Q. We also discussed, I think, a general
2 synopsis Mississippi's Medicaid program on average
3 is average compared to the other states. Isn't
4 that true?

5 A. Yes.

6 Q. In terms of eligibility, in terms of
7 criteria, in terms of fraud. Isn't that correct?

8 A. I don't know their average in terms of
9 fraud.

10 Q. Your testimony is limited to just
11 eligibility and criteria?

12 A. Yes.

13 Q. In terms of rate payments, methods of
14 rate payment or payments made to providers, they
15 are average. Isn't that right?

16 A. In terms of methodologies
17 they -- That's not a linear continuum. You can't
18 calculate an average. They engage in methodologies
19 that are still used by other states.

20 Q. The only thing that you really could
21 say that Mississippi was not average in was that it
22 hasn't done a statewide waiver or HMOs?

23 A. That wouldn't be an average statement
24 either.

25 Q. Tell me how it differed from the rest,

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1 or from the states that didn't implement the
2 statewide waiver program?

3 A. There are approximately 12 waiver
4 states currently, and Mississippi is not one of
5 them.

6 Q. Only 12 out of all the states that have
7 Medicaid programs have the statewide waiver
8 program?

9 A. Currently in effect.

10 Q. Actually Mississippi is in the majority
11 of the states with regard to the statewide waiver
12 program. Isn't it?

13 A. At this time.

14 Q. Any other voluntary choices we haven't
15 covered that you intend to testify about?

16 A. In terms of -- again, we are on the
17 fringe here with the in limine motion, but again,
18 with respect to --

19 Q. Before you go into it, give me the
20 general topic.

21 A. DISH.

22 MR. HELMS:

23 Actually, in your answer, I don't want
24 you to be concerned with the motion in limine. We
25 are not in trial or in front of a judge or jury.

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1 If he asks a question that covers it, give him the
2 answer. Don't be concerned about doing that. Just
3 answer his questions.

4 BY MR. YOUNG:

5 Q. DISH may be one?

6 A. The choices made by the state, special
7 payment mechanism for DISH and the funding of
8 indigent care would be another choice made.

9 Q. Now, the biggie, Paragraph 4. Can you
10 review that for me real quick? Run through it to
11 familiarize yourself with it.

12 A. Okay.

13 Q. Let me ask you this. Did you write
14 this disclosure statement?

15 A. No.

16 Q. Who wrote this?

17 A. Counsel wrote that. I reviewed it,
18 made some changes to it.

19 Q. Which counsel?

20 A. I'm not certain who actually was the
21 author.

22 Q. Who did you receive it from?

23 A. Received it from Mr. Streeter.

24 Q. What changes did you make?

25 A. Some wordsmithing, moving things

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1 around, putting adjectives in different places.

2 Q. Well, do you recall --

3 A. I don't recall what the changes were at
4 this time.

5 Q. In any of the paragraphs?

6 A. Correct.

7 Q. Were there any substantive changes?

8 A. No. We didn't suggest the deletion or
9 addition of anything.

10 Q. First of all, are you going to discuss
11 SAMMEC? And you know that's S-A-M-M-E-C, Smoking
12 Attributable Morbidity Mortality Economic Costs.
13 Are you going to discuss SAMMEC in any way?

14 A. Yes.

15 Q. Are you going to talk about -- What is
16 SAMMEC?

17 A. It's a model for estimating costs that
18 basically keyed on estimates of excess morbidity
19 associated with conditions that are on the surgeon
20 general's list.

21 Q. You would call it a model?

22 A. Yes.

23 Q. What type of model is it?

24 A. Again, it's an econometric model to put
25 it in a category, I guess.

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1 Q. Which version of SAMMEC -- You're aware
2 there are versions of SAMMEC, aren't you?

3 A. Yes.

4 Q. Which version do you intend to talk
5 about?

6 A. The discussion related to SAMMEC would
7 be related to the Max report and whatever its final
8 form is.

9 Q. What version?

10 A. Which I apparently have not received
11 yet.

12 Q. Do you know what version of SAMMEC was
13 used in the report you received?

14 A. Let me see if she cites the specific
15 version.

16 2.1 is the one cited in the report I
17 have.

18 Q. That's the one you will offer
19 testimony, assuming she doesn't change to another
20 version?

21 A. Right. Then it would be this, you
22 know, her use of that in this report.

23 Q. What have you done to familiarize
24 yourself with SAMMEC Version 2.1?

25 A. In terms of the specific mechanisms of

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1 the model itself, I have not attempted to
2 familiarize myself with the mechanics or the
3 equations of the model.

4 Q. So will your testimony be more as to
5 the input to the model?

6 A. The nature of the input to the model
7 and its applicability to the population to which it
8 is applied.

9 Q. Where does SAMMEC come from, 2.1?

10 A. My recollection this was a model which
11 was developed in cooperation with the University of
12 California at Berkeley and the Centers for Disease
13 Control and Prevention.

14 Q. So you won't express opinions as to the
15 validity or reliability as to the model itself, the
16 equations or mechanisms contained within SAMMEC?

17 A. I wouldn't anticipate, and I haven't
18 been asked to get into the technical details of the
19 model.

20 Q. So I just want to make sure we're on
21 the same page. Your testimony will be limited
22 solely to the input that's put in to the SAMMEC
23 model. Is that correct?

24 A. My understanding is that I will be
25 asked to talk about the data, the national data

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1 that was used in the development of the model and
2 the ways in which -- the characteristics those
3 populations are distinct from the Mississippi
4 Medicaid population.

5 Q. That's getting into the mechanics and
6 workings of the model, is it not?

7 A. Not in the sense of the structure and
8 construction of the equations.

9 Q. Well, they have to be --

10 A. That's what I would understand to be
11 the workings of the model.

12 Q. What did you just identify for me as
13 what you're not considering the workings of the
14 model?

15 A. The distinctions between the national
16 population on which the model construction was
17 based and the population to which the model was
18 being applied.

19 Q. Any other aspects of SAMMEC that you're
20 going to talk about?

21 A. Generically raising the question of its
22 applicability through time. Its consistency.

23 Q. Where did you obtain your copy of
24 SAMMEC 2.1?

25 A. I don't have a copy of SAMMEC 2.1.

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1 Q. Did you run it?

2 A. No, I didn't.

3 Q. You have not actually run the numbers?

4 A. No.

5 Q. Has any consultant working for you or
6 the law firms or the tobacco industry to your
7 knowledge ran the numbers for SAMMEC?

8 A. I can only answer with respect to
9 myself. No one working for me has run SAMMEC.

10 Q. Have you reviewed any material of
11 someone who's run SAMMEC?

12 A. Not at this time.

13 Q. Okay. Do you know where to get the
14 SAMMEC model if you wanted to get it?

15 A. I suspect I could ask counsel for a
16 copy. I guess it would be available from any of
17 the sources that have written about it and
18 described it.

19 Q. Have you reviewed all the literature on
20 SAMMEC 2.1?

21 A. I have not reviewed all the
22 literature.

23 Q. Have you reviewed any literature
24 regarding SAMMEC?

25 A. Some literature was provided by counsel

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1 which I perused but have not studied.

2 Q. How do you know the national population
3 on which the SAMMEC model is based? On what
4 national population is the SAMMEC model based?

5 A. The model was built based on a
6 population other than the Mississippi Medicaid
7 population.

8 Q. What population?

9 A. I don't know the precise population at
10 this point.

11 Q. You don't know what population forms
12 the basis of the SAMMEC model?

13 A. I believe that's my response.

14 Q. But you're willing to testify today
15 that it's inapplicable to Mississippi?

16 A. I have been asked to as necessary look
17 at the -- at characteristics of that model if it is
18 used and identify the distinctions between that
19 population and the Mississippi Medicaid population.

20 Q. Well, what are the characteristics of
21 that model?

22 A. Of the model?

23 Q. Of the population that forms the basis
24 of the SAMMEC model?

25 A. I don't have that data at this time.

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1 Q. How have you done the comparisons?

2 A. I haven't done the comparison at this
3 time.

4 Q. Do you plan to do that comparison?

5 A. When I receive that information I would
6 do that comparison.

7 Q. Who would that information come from?

8 A. I would expect to receive that from
9 counsel.

10 Q. Well, you correct me if I'm wrong.
11 SAMMEC is a model that you can buy off the computer
12 store shelf. Do you know that?

13 A. I know that. It's a Lotus based model.

14 Q. The model is there. Isn't that right?

15 A. The model exists, yes.

16 Q. The model is formed, the
17 characteristics of the model are already there.
18 Isn't that right?

19 A. Right.

20 Q. What are the characteristics of the
21 SAMMEC model that you will draw a distinction
22 between SAMMEC and the Mississippi population?

23 A. The SAMMEC model characteristics were
24 derived from raw data. The population
25 characteristics of that raw data, I did not have.

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1 If I receive those characteristics, I would then
2 make a comparison between those and the Mississippi
3 Medicaid population.

4 Q. You are here giving opinions, and you
5 obviously formulated your opinions, Doctor. One is
6 that you can't use the SAMMEC model to generate
7 costs for the Mississippi population?

8 A. That's not my opinion.

9 Q. You're saying the characteristics in
10 the SAMMEC model, you said the characteristics are
11 built in to the model?

12 A. Any model reflects data which was used
13 to construct it.

14 Q. Now, what were the data used to
15 construct the SAMMEC model?

16 A. I don't know that at this point.

17 Q. Who would know that?

18 A. That information is undoubtedly
19 contained in the literature regarding SAMMEC.

20 Q. You have not looked at it?

21 A. I have not studied that literature at
22 this time.

23 Q. As we sit here today, you cannot draw
24 the distinctions between the characteristics built
25 into the SAMMEC model and the Mississippi

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1 population at issue in this case, can you?

2 A. I have not done that analysis as of
3 today.

4 Q. You can't express any opinions about
5 that today, can you?

6 A. I have not had the data to do that,
7 that's correct.

8 Q. Have you asked for the data?

9 A. We have been working primarily on the
10 NEMIS data set.

11 Q. Have you reviewed the literature that
12 you produced to me on SAMMEC to see whether these
13 characteristics that we have been discussing are
14 present in that literature?

15 A. We received substantial quantities of
16 documents, some of which were perused a year or so
17 ago. I have not gone through that literature
18 recently. I have never read it in its entirety.

19 Q. You don't know whether or not the
20 characteristics are contained within those
21 documents, do you?

22 A. I do not.

23 Q. They may very well be?

24 A. They could be.

25 Q. You may already have the information,

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1 couldn't you?

2 A. It's possible.

3 Q. Do you consider yourself an expert on
4 SAMMEC, Doctor?

5 A. No, sir.

6 Q. Do you consider yourself an expert on
7 the methodology employed by SAMMEC?

8 A. No, sir.

9 Q. Do you consider yourself an expert on
10 the characteristics of the SAMMEC model?

11 A. No, sir.

12 Q. Have you reviewed Wendy Max' report in
13 this particular case?

14 A. The report of December 6, yes, I have
15 read that report.

16 Q. She uses SAMMEC, doesn't she?

17 A. Yes.

18 Q. Does she use any other approaches to
19 calculate damages?

20 A. She makes certain adjustments using
21 some Mississippi specific data, the behavioral risk
22 factor surveillance system.

23 Q. That's not my question, Doctor. My
24 question is does she use any other in addition to
25 calculating health care costs, smoking attributable

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1 health care costs using SAMMEC? Does her report
2 use any other methodologies to arrive at a smoking
3 attributable number for Mississippi?

4 A. She does use smoking prevalence data
5 from other sources, yes.

6 Q. That's not my question.

7 Do you know after reviewing Dr. Max'
8 report whether or not she relies exclusively on
9 SAMMEC to calculate -- I'm not talking about what
10 she puts into SAMMEC. Methodologies to calculate
11 damages. Whether or not she employs one approach
12 only or two approaches or three?

13 A. It's my appreciation that she is using
14 a SAMMEC approach.

15 Q. So you're not going to offer expert
16 opinion about a mortality ratio approach?

17 A. It's my appreciation that SAMMEC is a
18 mortality ratio approach.

19 Q. Are you familiar with Hughes and
20 Switzer in the literature?

21 A. No, I'm not.

22 Q. Do you know whether Dr. Max employed
23 that approach in her report?

24 A. I don't know that identification, no.

25 Q. Tell me what else you know about

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1 SAMMEC.

2 MR. HELMS:

3 Objection to the question. Vague. Be
4 a little more specific.

5 BY MR. YOUNG:

6 Q. You can answer that.

7 A. Beyond what we already identified, you
8 know, I don't know much more about the model than
9 it is, you know -- the things we already said.

10 Q. Do you know the application Wendy Max,
11 Dr. Max in applying SAMMEC or running SAMMEC for
12 the State of Mississippi?

13 A. I don't know what you mean by the
14 "application."

15 Q. Do you know what data she put in to run
16 SAMMEC?

17 A. Various items that the SAMMEC model
18 prompts you to ask to be input.

19 Q. What are those?

20 A. Some of those are various smoking
21 prevalence rates. I don't recall what all the
22 items are that are prompted for. It's been very
23 well over a year since I looked at those
24 documents.

25 Q. Okay. We established now you don't

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1 know the inner workings of the SAMMEC model. Is
2 that right?

3 A. Right.

4 Q. You won't offer opinions about the
5 methodology or the inner workings of the SAMMEC
6 model. Right?

7 A. Right.

8 Q. You talked about inputs to the SAMMEC
9 model. I want to know your understanding of what
10 the inputs are for the SAMMEC model.

11 A. I would need to go through the
12 documentation and read what they are.

13 Q. Do you intend to offer opinions about
14 what's input into the SAMMEC model?

15 A. No. SAMMEC model is what it is.

16 Q. Don't you have to feed data into it to
17 get results?

18 A. Yes.

19 Q. What data does it require to get
20 results?

21 A. I have to review the literature to see.

22 Q. I'm not meaning to be contentious in
23 any way, shape, or form. We have a trial set for
24 July 7 in this case. If you're going to testify
25 regarding SAMMEC, all right, I need to know whether

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1 you know anything about it, and one of the basic
2 questions about that is what input data is required
3 about SAMMEC.

4 If you don't know, that's fine. I just
5 need to know. I need to know what you're going to
6 say at trial about it.

7 Do you understand what I'm coming from?

8 A. Yes.

9 Q. Again, please tell me what's required
10 as input for the SAMMEC model.

11 A. As we sit here today, I do not recall
12 all of the input items. I read them once several
13 months ago. I know where I would find those. I
14 could look them up and read them.

15 Q. Well, then --

16 A. I will stop there.

17 Q. I don't want to interrupt you. Were
18 you finished?

19 A. I'm finished. Period.

20 Q. You don't know today what the inputs
21 are with regard to SAMMEC?

22 A. The precise inputs, I don't know to
23 date.

24 Q. Okay. You are aware that data is to be
25 input in to SAMMEC?

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1 A. Yes.

2 Q. Without knowing what the data inputs
3 are for SAMMEC, you can't distinguish that data
4 from the Mississippi data, can you?

5 A. The input data would be Mississippi
6 specific data.

7 Q. All right. What Mississippi specific
8 data? What?

9 A. The items that would be prompted for
10 that I could find the document and read what
11 numbers the model prompts for.

12 Q. Well, are you going to testify input to
13 the SAMMEC model is flawed?

14 A. No.

15 Q. Unreliable?

16 A. No.

17 Q. Now, we established that assuming you
18 find out what the inputs are required in SAMMEC,
19 the inputs by Dr. Max she put into this model are
20 not flawed in your opinion. Is that right?

21 A. I don't know if they are flawed or not
22 flawed. It's not -- I have not been asked to
23 testify as to whether or not they are flawed.

24 Q. Paragraph 4 of your disclosure. "The
25 flawed assumptions forming the basis for

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1 plaintiff's statistical model that attempts to
2 estimate the Mississippi Medicaid costs
3 attributable to smoking." All right.

4 A. All right.

5 Q. Are we talking about SAMMEC, or are we
6 talking about the Vince Miller model?

7 A. We are talking potentially about both
8 of these. This does not talk about flawed data.

9 Q. Now, we're down a good path.
10 Assumptions.

11 A. That's what mine says.

12 Q. What assumptions are required by the
13 SAMMEC model? What does the model require? What
14 are assumptions in the model?

15 A. The basic assumption I am concerned
16 with is the assumption that the way in which the
17 model was constructed is applicable to the
18 Mississippi Medicaid population.

19 Q. I am having a hard time. You told me
20 you don't know how the model was constructed or the
21 inner workings about the model or anything about
22 the methodology of the SAMMEC model. Didn't you
23 tell me that?

24 A. Yes. The concern -- my testimony here
25 is to indicate the sorts of differences that would

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1 need to be accounted for a model to, in fact,
2 work.

3 Q. For what model to, in fact, work?

4 MR. STREETER:

5 Let's shorten this line of testimony if
6 I can talk to Dr. Long a second. I mean I think
7 this testimony is becoming -- your questions are
8 becoming argumentative and abusive and attempting
9 to embarrass the witness. If I can talk to him --

10 MR. YOUNG:

11 David, do you agree with that
12 characterization?

13 MR. FONVIELLE:

14 Clearly not abusing the witness.

15 MR. HELMS:

16 Let's take a break for a second if
17 that's okay. I'm not accusing you of anything,
18 Lee. I am trying to help you take a more efficient
19 deposition. That was not --

20 MR. YOUNG:

21 Well --

22 MR. HELMS:

23 That was not meant to be a comment on
24 your style. It was meant to try and save time.

25 MR. YOUNG:

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1 Saving time if the witness is going to
2 talk about the SAMMEC methodology and flaws and
3 assumptions involved in that -- if he will say I
4 won't discuss it.

5 MR. HELMS:

6 Keep asking questions. Go ahead. I
7 won't help you.

8 BY MR. YOUNG:

9 Q. Doctor, what assumptions?

10 A. Where was I?

11 (The requested testimony was read back as
12 follows:

13 A. Yes. The concern -- my testimony
14 here is to indicate the sorts of
15 differences that would need to be
16 accounted for for a model to, in fact,
17 work.

18 Q. For what model to, in fact, work?)

19 EXAMINATION BY MR. YOUNG:

20 Q. For what model?

21 A. It's my appreciation there are three
22 different models which may be put forward by the
23 plaintiff.

24 Q. What are those three models?

25 A. The three models reported by Wendy Max,

A. WILLIAM ROBERTS, JR., & ASSOCIATES

1 by Vince Miller, and by Dr. Oster.

2 Q. All right. Your belief is that Wendy
3 Max has only done one approach, model approach?

4 A. She has used mortality approach for her
5 estimations.

6 Q. All right. Now, what assumptions that
7 you're talking about need to be corrected
8 for -- what are the assumptions in SAMMEC that are
9 not considered?

10 A. The general subject matter of number
11 four is the fundamental assumption that the
12 construct of the models being put forward are
13 applicable to the Mississippi Medicaid population.

14 Q. Now, what does "construct" mean?

15 A. That the intrinsic assumption in
16 applying any of these models is that the real world
17 information which went into the construction of the
18 model is sufficiently similar to or can be adjusted
19 for the differences between that population and the
20 Mississippi Medicaid population.

21 Q. Now, we are getting somewhere. I want
22 you to tell me what intrinsic information is in the
23 SAMMEC model.

24 A. At this time, as I have previously
25 testified, I have not looked at the characteristics

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1 of the underlying data used to construct the SAMMEC
2 model, the population characteristics. They would
3 be -- to compare those characteristics to the known
4 characteristics of the Mississippi Medicaid
5 population to the extent to which they were
6 different.

7 Q. You haven't done that?

8 A. I have not done that.

9 Q. As we sit here today, you don't know,
10 do you?

11 A. How different they may be.

12 Q. So you really can't form an opinion on
13 that as we sit here today, can you, Doctor?

14 MR. HELMS:

15 On what?

16 BY MR. YOUNG:

17 Q. Intrinsic differences between SAMMEC
18 and the Mississippi Medicaid population?

19 A. That analysis has not been done at this
20 time.

21 Q. That's the basis for your opinion with
22 regard to SAMMEC, isn't it? That's the whole
23 purpose of that section, isn't it?

24 A. The extent to which, you know, these
25 characteristics are distinct. Then to see whether

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1 or not SAMMEC accounts for such differences.

2 Q. That's the extent of your testimony,
3 isn't it, with regard to SAMMEC? Isn't it?

4 A. Whether or not that will be the case,
5 yes.

6 Q. You don't know, do you? As we sit here
7 today, you don't know?

8 A. As I sit here today, I did not know
9 whether or not the SAMMEC model adequately adjusts
10 for whatever differences may exist between its
11 original construct and the Mississippi Medicaid
12 population.

13 Q. You're not prepared to give opinions in
14 that regard today, are you?

15 A. The testimony that I will give is the
16 extent to which there are differences which need to
17 be accounted for. Not whether or not it does, in
18 fact, adequately account for them.

19 Q. It doesn't matter if it does? It
20 doesn't matter if it accounts for those then?

21 A. I would think it would matter a great
22 deal.

23 Q. You can't tell me as we sit here today
24 whether it does or it doesn't?

25 A. No. That is not what we have said I

A. WILLIAM ROBERTS, JR., & ASSOCIATES

1 will testify to.

2 MR. HELMS:

3 Let's take a break.

4 MR. YOUNG:

5 Go ahead and take your break.

6 (A break was taken.)

7 BY MR. YOUNG:

8 Q. Dr. Long, during the recess you went
9 and deferred with counsel. What did you discuss
10 with counsel?

11 A. We discussed the extent to which you
12 had the answer to the question you were asking.

13 Q. Tell me if I had the answer to the
14 question I was asking.

15 A. It was our opinion that you did.

16 Q. Which was?

17 A. Which was that I do not at this time
18 have the information of the population
19 characteristics that were used to build the SAMMEC
20 model, the mortality rate model. When that
21 information is made available to me, that I stand
22 ready to testify on the extent to which those
23 populations' characteristics differ, if they do,
24 from the Mississippi Medicaid population which I do
25 know the characteristics of.

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1 Q. All right, now, do you need Vince
2 Miller or Wendy Max to give you the characteristics
3 involved in the SAMMEC methodology?

4 A. I am indifferent as to the source as
5 long as it's accurate information.

6 Q. Well, what I am getting at is you're
7 not waiting for a report from Wendy Max or Vince
8 Miller in order to arrive at the information built
9 in to SAMMEC, are you?

10 A. I am not explicitly expecting to get it
11 from Wendy Max or Vince Miller.

12 Q. Well, who are you going to get it from?

13 A. I don't know that at this point.

14 Q. Are you going to try to get it?

15 A. I am certainly going to request it, and
16 it may be something that is presented at trial. I
17 don't know.

18 Q. Well, was there anything that impeded
19 you from getting the information prior to today?

20 A. Generally the -- apparently only very
21 recent discovery with respect to those experts for
22 the plaintiff.

23 Q. That's the reason that you don't know
24 about SAMMEC until today?

25 A. That may be a contributing factor to

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1 it.

2 Q. Well, so without that information
3 today, you can't give the opinions that we
4 discussed regarding the makeup of the SAMMEC model
5 and the distinguishing characteristics between the
6 population and SAMMEC versus Mississippi Medicaid?

7 A. But I could certainly tell you about
8 the Mississippi Medicaid population.

9 Q. You can't do a comparison between that
10 and the SAMMEC model?

11 A. Because I do not have that
12 information.

13 Q. Mark this for me.

14 Can you identify Exhibit #5 for me,
15 please?

16 A. Appears to be a letter to Lucy
17 Eisenberg from William Butler on the subject of
18 SAMMEC2 with what appear to be print images of
19 computer screens of various data associated with
20 the model plus additional noncomputer attachments.

21 Q. Do you recall that's one of the
22 documents you provided to us today?

23 A. I don't specifically recall that
24 document, but the documents which were provided
25 included the request for everything which had been

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1 supplied to me by counsel, and I'm sure that falls
2 in that category.

3 Q. Who is Lucy Eisenberg?

4 A. She's an attorney.

5 Q. For whom?

6 A. I don't recall which defendant her firm
7 represents.

8 Q. For a tobacco defendant?

9 A. I believe it's for a tobacco
10 defendant. I'm not positive about that either.

11 Q. Who is ChemRisk?

12 A. I have no idea.

13 Q. Have you seen this analysis before?

14 A. I don't recall having seen that
15 document.

16 Q. It appears from here, and you can look
17 at it again, somebody has run this -- ChemRisk has
18 run the SAMMEC version for Ms. Eisenberg. Isn't
19 that correct?

20 A. They apparently -- the letter says they
21 performed three additional analyses which are
22 described below. Then it attaches these printouts.

23 Q. Did they find zero dollars attributable
24 to smoking?

25 A. I would have to read this to see.

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1 Q. Well, go ahead.

2 A. The answer to your question is they did
3 not find zero.

4 Q. What did they conclude was the smoking
5 attributable fraction for expenditures?

6 A. Overall depending on which of the
7 assumptions or set of runs they did, apparently
8 somewhere between 2.7 and 3.5 percent compared to
9 some benchmark of 7.1 by Bartlett.

10 Q. Are you familiar with the Bartlett, et
11 al they refer to in there?

12 A. I'm not.

13 Q. You could have run SAMMEC, couldn't
14 you, Dr. Long?

15 A. If I had the program and the input
16 data, I could have put the numbers into the Lotus
17 spread sheet I'm sure.

18 Q. Did your client, any of your clients,
19 whether it be the law firms or the tobacco
20 companies, ask you to run SAMMEC?

21 MR. HELMS:

22 Lee, why do you keep trying to
23 interject that? It's irrelevant. You know what
24 his testimony is. You are trying to distort the
25 record. If you want to ask him about the

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1 companies, ask him about the companies. If you
2 want to ask about his clients, ask him about his
3 clients.

4 BY MR. YOUNG:

5 Q. You can answer.

6 A. The law firms have not requested I run
7 the SAMMEC model.

8 Q. Have any of the tobacco companies asked
9 you to run the model?

10 A. They have not.

11 Q. Could you identify for me, please,
12 Exhibit #6?

13 A. It's a memorandum to my associate, Ms.
14 Howlett-Willis, from a Cory Daehn at the Stuart
15 Cunningham organization in Chicago.

16 Q. Who is Stewart Cunningham?

17 A. This is an organization that does
18 database management information systems services.

19 Q. Are you working with them as a
20 consultant?

21 A. No. They are providing services to my
22 organization.

23 Q. I thought we talked about earlier that
24 it was just you and Ms. Howlett-Willis.

25 A. As persons doing substantive work.

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1 They are simply providing downloads of information
2 that need to be put into smaller pieces so we can
3 handle it from a mainframe.

4 Q. Where are they getting their
5 information from? What information are we talking
6 about?

7 A. MMIS, Mississippi Medicaid information.

8 Q. They have taken the MMIS tapes?

9 A. Yes.

10 Q. Have you asked them to do certain
11 things with them?

12 A. Yes.

13 Q. Generally what have you asked them to
14 do?

15 A. Give us certain subsets of that
16 information in CD-ROM form that is small enough
17 quantities of information that we can manage it on
18 our own facilities which are basically PC
19 facilities.

20 Q. For what purpose?

21 A. For the purpose of analyzing the
22 Mississippi Medicaid population.

23 Q. For what purpose?

24 A. To ascertain the demographic and
25 diagnostic characteristics of that population, to

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1 be able to offer comparisons between that and the
2 populations used to generate the models that may be
3 presented by the plaintiffs.

4 Q. So you have asked them to take the MMIS
5 data and break it down by both demographics. Is
6 that right?

7 A. No. We asked them to give it to us in
8 pieces such that we can then do the analysis and
9 the -- get the distributions of the population and
10 the various characteristics and cross tabs, et
11 cetera. We have not asked them to do the
12 analysis.

13 Q. What sections did you ask to be
14 provided to you?

15 A. That is part of what is contained in
16 this memorandum.

17 Q. Generally what have you asked them to
18 provide to you?

19 A. Basically things like the age or the
20 birth date, and in this case, gender, racial
21 characteristics, identifier numbers.

22 Q. Isn't that type of information found on
23 the HCFA 2082 report?

24 A. Not for individual claims.

25 Q. You want to link it up to individual

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1 claims?

2 A. We are talking about individual
3 people. Both persons and episodes or claims within
4 the Medicaid system.

5 Q. All of that appears on these reports
6 that you have produced? You have done that work?

7 A. We have done that work, yes.

8 Q. You broke it or you're further breaking
9 it down by the demographics linked with the
10 claims. Is that right?

11 A. That's right.

12 Q. What about diagnostic?

13 A. We got diagnostic information in there
14 for ICD-9 codes.

15 Q. For instance, lung cancer, total number
16 of lung cancer?

17 A. Right. Or Alzheimer's or whatever.

18 Q. How did you decide which ICD-9 codes
19 you wanted?

20 A. Basically from the attorney general's
21 list of smoking related ICD conditions which we
22 match up with ICD-9 codes.

23 Q. Do you know where that list came from?

24 A. You mean the copy which --

25 Q. Do you know where the attorney general

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1 could have gotten his list of smoking related
2 conditions?

3 A. I actually don't know the history of
4 that.

5 Q. Do you know where there's a listing of
6 smoking related ICD-9s or smoking related diseases?

7 A. It's my appreciation that that is
8 something that was produced by the attorney
9 general.

10 Did I say attorney general?

11 Q. Yes. I'm sorry?

12 A. Surgeon general.

13 Q. You have no reason to dispute the
14 Surgeon General's Report with regard to that list
15 of smoking related diseases?

16 A. We accepted that list as the things we
17 would want to investigate.

18 Q. In fact, those are commonly -- is it a
19 commonly accepted list by people in your field all
20 the time, isn't it?

21 A. That's my appreciation.

22 Q. When I say, "the list," I mean the list
23 of diseases in the Surgeon General's Report.

24 A. Yes.

25 Q. Have you asked them to do anything

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1 besides take the MMIS tapes and break them down
2 into manageable sections to further break them down
3 into demographics and diagnostic information?

4 A. That's correct. We have not asked for
5 any other services than that.

6 Q. You essentially are analyzing the MMIS
7 tapes to get a breakdown by claim type, the
8 demographics by claim payment?

9 A. We are doing several layers of
10 analysis. We are looking at, you know, just simple
11 data such as age category distribution in the
12 population, whether or not there were long-term
13 care claims or not long-term care claims, what does
14 the population over the age of 65 look like
15 compared to the population under the age of 18. We
16 are doing a variety of cuts on the data, if you
17 would.

18 Q. I will hand you what's been marked
19 Exhibit #7. If you could identify that for me,
20 please?

21 A. This is a cover letter addressed to
22 myself from Lucy Eisenberg listing some materials
23 that she sent to us back in October of 1995.

24 Q. Have you reviewed those materials?

25 A. Some of these we -- I have personally

A. WILLIAM ROBERTS, JR., & ASSOCIATES

1 reviewed in some detail. Some of the others were
2 ones that we just talked about with respect to
3 SAMMEC.

4 Q. Tell me what is number one.

5 A. That is the earlier Kaiser Commission
6 on the future of Medicaid report. I don't remember
7 the date of that one. The newer one is November of
8 1996.

9 Q. All right. I will hand you what's been
10 marked Exhibit #8. Could you identify that for me,
11 please?

12 A. This is an earlier outline of things
13 that might be contained in testimony that I would
14 ultimately give, again, dating from October of
15 1995.

16 Q. May I see that? Did you prepare this?

17 A. Yes.

18 Q. Did you give a presentation?

19 A. No.

20 Q. This is what you anticipate your
21 testimony to be?

22 A. At that time those were things that
23 might be in that list of testimony.

24 Q. In section three of this outline on
25 Page 2, you talk about the validity of economic

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1 assumptions embedded into plaintiff methodology,
2 and under that is A, SAMMEC. You don't know the
3 assumptions embedded in SAMMEC, do you? We
4 discussed that earlier?

5 A. We discussed that.

6 Q. You don't, do you?

7 A. That's correct.

8 Q. That's been marked Exhibit #9.

9 A. This is a page and half bibliography of
10 mostly articles, some other articles that all deal
11 with use of statistical models to calculate the
12 cost of smoking attributable diseases apparently
13 compiled by Ms. Eisenberg in June of 1995.

14 Q. Have you done a review of that
15 literature?

16 A. I have not.

17 Q. Will you be critiquing any of the
18 studies or analysis that are presented on Exhibit
19 #9?

20 A. I have not been asked to do that.

21 Q. With regard to the use of statistical
22 models to calculate smoking related health care
23 costs?

24 A. I have not been asked to critique any
25 of those articles.

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1 Q. You will not be doing that at trial?

2 A. I don't expect to be.

3 Q. Do you have any reason to disagree with
4 any of these?

5 A. I have not reviewed them.

6 Q. Let's go back to your disclosure
7 statement. Have you got your copy in front of
8 you? Paragraph 4, again.

9 Now, we talked about SAMMEC, and your
10 understanding is that is the only approach Wendy
11 Max is doing in this case?

12 A. I think we talked about that she is
13 using mortality based approaches of which SAMMEC is
14 an example, yes.

15 Q. Is she using any other approach besides
16 SAMMEC?

17 A. I think she has, you know, a variation
18 on mortality based approach in her report. I have
19 not reviewed it.

20 Q. Do you know what her assumptions are in
21 that approach?

22 A. I don't at this point.

23 Q. You are not prepared to give opinions
24 as we sit here today regarding the assumptions she
25 made in the model or what the other approach

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1 involves in distinguishing it from the Mississippi
2 Medicaid population?

3 A. That's right. I have not seen a
4 listing of her assumptions.

5 Q. Have you reviewed her report?

6 A. I have read her report sometime ago,
7 yes.

8 Q. You're not prepared to tell me what
9 your testimony is going to be about her report as
10 we sit here today concerning that approach?

11 A. My testimony again would be
12 based -- would not focus on the report per se, but
13 on the nature of the database on which the models
14 were built.

15 Q. The non-SAMMEC model, the mortality
16 ratio, what model is that based on? What
17 assumptions are used?

18 A. I don't know the population.

19 Q. You can't draw any comparisons as we
20 sit here today between that model and the
21 assumptions made in that model and the Mississippi
22 Medicaid population?

23 A. Until I have the characteristics of
24 those populations. What I know about the
25 Mississippi Medicaid population can be compared

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1 against those as soon as I know what they are.

2 Q. What about the Vince Miller model, what
3 are the flawed assumptions in the Vince Miller
4 model?

5 A. We are talking about the same
6 fundamental assumption about the applicability to
7 the Mississippi Medicaid model. We are looking at
8 the NEMIS 2 or the NEMIS data set and the extent to
9 which that population differs from the Mississippi
10 Medicaid population.

11 Q. Okay. So, first of all, let's make
12 sure we are clear on what Wendy Max has done,
13 mortality ratio report and SAMMEC approach. You
14 don't know the assumptions that went into those
15 models in order to testify as we sit here today
16 regarding the comparisons and therefore the flaws?

17 A. The population characteristics.

18 Q. That's what your whole basis in
19 Paragraph 4, that's the basis for your opinion?

20 A. Paragraph 4 deals with that.

21 Q. You can't do that as we sit here today,
22 can't form your opinions with regard to the
23 mortality ratio approach or the SAMMEC approach,
24 can you?

25 A. I don't have the population information

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1 to make those comparisons.

2 Q. So you can't testify about your
3 opinions today with regard to those two approaches,
4 can you?

5 A. With respect to those differences,
6 that's correct.

7 Q. Now, let's concentrate on the Vince
8 Miller model. Okay? You have got March 7 model or
9 the report?

10 A. March, right.

11 Q. By Vince Miller?

12 A. Yes.

13 Q. First of all, are you going to offer
14 opinions about the construct of the Vince Miller
15 model?

16 A. In the sense the variables which have
17 been included in that model, one of the concerns
18 that I expect to testify about would be the factors
19 which are not included in his variable set.

20 Q. Okay. The inner workings of the
21 model?

22 A. I did not expect to testify with
23 respect to the equations and the statistical
24 mechanisms.

25 Q. Logit or probit, R squared, you won't

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1 testify about?

2 A. That's correct.

3 Q. Goodness of fit, you're not going to
4 testify about that?

5 A. I will not -- I did not expect to be
6 asked to be doing that analysis. I may very well
7 be told what that analysis is or hear it from
8 plaintiffs' experts at trial.

9 Q. So you are really talking about the
10 input variables that went into the Vince Miller
11 model?

12 A. Input variables and the population from
13 which they were drawn.

14 Q. What are the input variables for the
15 Vince Miller model?

16 A. There's a whole list of things that
17 were used, race, gender, age cohorts, marital
18 status, educational status, self description of
19 risk behavior, whether or not physically active,
20 degree of being overweight, whether seatbelts are
21 employed --

22 Q. Are they all on that page?

23 A. Yes.

24 Q. What page are you referring to?

25 A. Page 10 of the March 8. The cover says

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1 March 7; the page says March 8.

2 Q. You actually got the NEMIS data tapes,
3 didn't you?

4 A. Yes.

5 Q. Did you review them yourself?

6 A. Yes.

7 Q. Did you do slices and dices of the
8 NEMIS data?

9 A. Yes.

10 Q. Are those in these reports that you
11 produced to me?

12 A. Yes.

13 Q. Now, how were you trying -- what were
14 you trying to do with the NEMIS data? How were you
15 trying to break it down?

16 A. Trying to take characteristics of the
17 NEMIS population or subsets of the NEMIS population
18 and match them up against comparable subsets of the
19 Mississippi Medicaid population.

20 Q. Which subsets of the NEMIS population
21 were you particularly looking at?

22 A. Well, we did some analysis by age
23 category against the actual utilization of
24 NEMIS -- Back up.

25 The Miller implementation or use of the

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1 NEMIS data was limited because of certain
2 limitations in that data set. For example, the
3 portion of the NEMIS data set that was relevant was
4 the noninstitutionalized population within NEMIS
5 because of the absence of smoking behavior in the
6 institutionalized -- that is the data set did not
7 include smoking behavior of the institutionalized
8 portion which is why nursing home things are
9 treated differently in the model.

10 We took the noninstitutionalized
11 portion of NEMIS and then tried to stack that up
12 against the noninstitutionalized portion of
13 Mississippi Medicaid. We looked at different age
14 cuts, over 65, noninstitutionalized.

15 Q. All this is in these --

16 A. These various cross analyses, some with
17 cross tabs, just looking at a particular single
18 characteristic at the time are all in the data
19 sets.

20 Q. When you broke it down, the NEMIS
21 population down, did several of the cells -- you
22 can call them whatever you want to call them --
23 result in very few people being present in certain
24 cells?

25 A. The level of the analysis which we did

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1 on the primary things, you know, basically, the
2 only place you start getting small numbers is when
3 you start talking about people over the age of 85,
4 and you may get numbers down around 2,000 in some
5 of the marital categories.

6 Q. How big was the NEMIS population?

7 A. Somewhere in the vicinity of 38,000.

8 Q. Do you know any other national data set
9 that has smoking history and medical expenditure in
10 it?

11 A. Any other national?

12 Q. Any other data set.

13 A. That has?

14 Q. Publicly available data set that has
15 smoking information and medical expenditure
16 information linked to individuals.

17 A. I'm not aware of any other significant
18 data set.

19 Q. I will get you to tell me what your
20 testimony, what you expect your testimony to be
21 with regard to the Miller model and its flaws if
22 you will list those for me.

23 A. Okay. I would be concerned by a number
24 of -- the number of factors being included probably
25 being insufficient to describe the complexities of

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1 the population with respect to seeking a smoking
2 attributable fraction in these various categories.
3 One of the limitations which he points out in his
4 report is the absence of alcohol use which may be a
5 significant covariant with smoking. I don't see
6 any data on drug use. I don't see any -- he does a
7 number of interactive terms. I don't see any
8 interactive terms with weight.

9 I see only sort of a yes, no, variable
10 on physical activity, but there are lots of
11 different kinds of physical activity. I don't see
12 other risky behaviors such as perhaps use of
13 helmets when riding bicycles, motorcycles, et
14 cetera. I don't see any data on another important
15 risk factor in many of these ICD-9 codes such as
16 serum cholesterol. There's a lot of things that
17 could make the model arguably better that are not
18 there.

19 That would be one area of concern.

20 Q. Have you --

21 MR. HELMS:

22 I'm sorry. Had you finished your
23 answer on all the areas of concern?

24 THE WITNESS:

25 That's one of the first of several

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1 MR. YOUNG:

2 I thought it would be easier to ask him
3 a question about it.

4 MR. HELMS:

5 As long as it is clear he has not
6 finished the answer.

7 BY MR. YOUNG:

8 Q. These are variables that you think need
9 to be controlled for that are not controlled for?

10 A. That's right. That are absent from the
11 model.

12 Q. I didn't think you were going to talk
13 about the inner workings of the model or the
14 equations.

15 A. I'm not talking about whether or not
16 the logit or the probit mechanics were
17 appropriately done or whether use of dummy
18 variables as opposed to continuous variables or any
19 of the more technical items, but simply looking at
20 the input side we would have better information,
21 better model if we had some of these other known
22 either behaviors or conditions included as
23 explanatory variables.

24 Q. How did you know that there's risk
25 associated with drug use or alcohol? Where did you

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1 get that information?

2 A. If what we are talking about the
3 medical expenditures, we know that, you know, there
4 are lots of medical expenditures associated with
5 overuse of alcohol. Motor vehicle accidents that
6 lead to personal injury, for example. Drug
7 overdoses produce medical expenditures.

8 Q. Did you try to run the Vince Miller
9 model?

10 A. I haven't gotten the Vince Miller
11 model.

12 Q. Have you asked for it?

13 A. I am told that it has kept changing
14 fairly frequently and that I will get to see it
15 when we know what it is.

16 Q. You're basing what variables that
17 you're talking about are based on what he reported
18 in his report?

19 A. Yes. If I get a new report and it
20 says, "We have alcohol use and drug usability in,"
21 that's fine.

22 Q. Do you know if Dr. Miller put in a
23 surrogate or anything for any of these variables?

24 A. For any of which variables?

25 Q. Alcohol usage, weight?

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1 A. He makes the statement in the report
2 that he thinks the covariant effect of alcohol
3 might be very small because he sees small covariant
4 effects in the covariants that he did put in.

5 I am much less comfortable leaping to
6 that conclusion. He asserts it without actually
7 producing evidence that would be a reasonable
8 statistical conclusion.

9 Q. You think that's wrong?

10 A. I think that it's to be questioned.

11 Q. Do you know whether anybody has
12 questioned it or not?

13 A. I would assume that plaintiffs'
14 statistical experts and perhaps defendants'
15 statistical experts would be exploring those
16 questions.

17 Q. What other problems are you going to
18 testify about?

19 A. I am concerned that the smoking
20 attributable fractions that --

21 MR. HELMS:

22 I'm sorry. I didn't mean to
23 interrupt. I think you changed the question.

24 MR. YOUNG:

25 He knows. He is going to number two.

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1 We covered one.

2 MR. HELMS:

3 Sorry. I think the question changed.

4 If it doesn't matter to you, that's fine.

5 BY MR. YOUNG:

6 Q. What's your understanding of what I am
7 asking?

8 A. I will eventually get through the list
9 of things that I would find to be concerns about
10 the Miller model.

11 Q. That you will testify about?

12 A. That I would be testifying about.

13 Q. I want to know them all. Give me
14 number two.

15 A. Another concern is that the smoking
16 attributable fractions that are generated encompass
17 some very different medical care use both in terms
18 of what services we are talking about, and in terms
19 of the mixture of services and providers that would
20 be better dealt with if we were able to segment
21 that population.

22 Generating a factor for hospitalization
23 expenses for the entire noninstitutionalized
24 population means that we are picking a single
25 number to deal with, for example, persons who are

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1 over the age of 65 as well as persons under the age
2 of 65, persons who are disabled as opposed to
3 persons who are not disabled.

4 To the extent that the representations
5 of those persons differ from the populations and to
6 the extent they use very, very different mixes of
7 services and represent different proportions of
8 medical expenditures leads me to a concern of using
9 sort of a single number that cuts across all those
10 different subpopulations.

11 Q. You mean applying SAF to expenditures,
12 not how the SAF is generated, right?

13 A. We are applying a single SAF to all
14 hospitalization, for example.

15 Q. In the Medicaid expenditures?

16 A. Yes. Medicaid hospitalization
17 expenditures even though we know that different
18 subpopulations within Medicaid and indeed within
19 NEMIS itself have very, very different hospital
20 utilizations and for different reasons.

21 Q. How would you have done it?

22 A. Well, one of the things I would
23 certainly want to explore is generating a model in
24 which you stratified the model for different
25 classes of individuals, and that could be cut in

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1 one of a number of ways and might want to try many
2 different ones. But certainly one could stratify
3 it on sex, on race, on age, just to use some of the
4 data that is in the set.

5 I would also want to look at the
6 difference between disabled and nondisabled persons
7 since disabled expenditures in the population at
8 large are fairly small percentage of health care
9 expenditures. In the Medicaid population they are
10 huge percentages of the expenditures.

11 Q. Is that number two?

12 A. Yes.

13 Q. On number one, how would you have done
14 it, corrected for these variables that you say were
15 not adequately represented in the model?

16 A. Ideally I would like to have had that
17 in the data set to begin with.

18 Q. We know that's not always possible,
19 don't we?

20 A. It doesn't seem to me it would have
21 been difficult to do some of those things in that
22 process. Some of those have to do with --

23 Q. Did Vince Miller do the NEMIS survey?

24 A. He did not.

25 Q. Do you know how much the NEMIS survey

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1 costs?

2 A. I don't.

3 Q. Any idea?

4 A. No.

5 Q. Do you know how long it took to
6 compile?

7 A. I think the data was compiled over four
8 quarters.

9 Q. Of a year?

10 A. Yes.

11 Q. Have you head read about the NEMIS
12 survey?

13 A. Only in conjunction with its use here.

14 Q. You have no idea how much it cost to do
15 that?

16 A. I don't know how much it cost.

17 Q. What's the third one?

18 A. Another one would be the general
19 concerns that we discussed earlier today having to
20 do with wanting to see, you know, the extent to
21 which we have so-called goodness of fit, the extent
22 to which this model works on populations similar to
23 the one from which it was built.

24 Q. Explain that.

25 A. We built this on a survey of persons in

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1 1987. If I took these equations and used them on a
2 survey of people in 1997, it would -- would I in
3 fact get results which matched what I could
4 empirically observe as to the expenditures of those
5 people in 1997.

6 Q. Is that about --

7 A. I am making the distinction between
8 this model well describes the population on which
9 it is built.

10 Q. This model does?

11 A. I am asking. That's question number
12 one. That's a different question than the question
13 of does the model work on another population that
14 in terms of these variables looks the same.

15 Q. All right. Now, have you done a
16 statistical analysis, and is this all called
17 goodness of fit?

18 A. No.

19 Q. Did we skip goodness of fit and go to
20 something else?

21 A. The first issue is the goodness of
22 fit. Does it well describe the population from
23 which it was built.

24 Q. That's number three?

25 A. No. Number three in the big list?

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1 Q. Yes.

2 A. We were number three in the big list.

3 Q. What is number three generically?

4 A. Generically the applicability of the
5 model, the goodness of the model, if you would.
6 Does it fit the population that it was built from.
7 That's the statistical significance kinds of things
8 we talked about earlier.

9 Q. Are you doing any analysis?

10 A. I am not.

11 Q. Are you planning to?

12 A. I'm not planning on doing the analysis.

13 Q. You are just throwing up the question,
14 you're not doing analysis of your own as to form
15 opinions one way or the other?

16 A. I expect your experts or defendants'
17 experts who will be looking at the issues will
18 provide that information when they know it.

19 Q. You will defer to their findings?

20 A. I will defer to their findings.

21 Q. What else within that?

22 A. Then, if it happens to fit really well,
23 then the question is does it predict another
24 similar population.

25 Q. I.e., the Medicaid population?

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1 A. No. A similar population. If you gave
2 me another 38,000 people who looked exactly like
3 the people in the NEMIS data set and I ran the
4 model on them and it told me that I had this much
5 smoking attributed cost, and then I went out and
6 looked at the costs, would it give me a number that
7 was somewhere in the same ballpark.

8 Q. What techniques would you employ to do
9 these tests?

10 A. That would require some empirical
11 verification, applying the model where it ought to
12 work.

13 Q. Is that called boot strapping? Have
14 you heard that term before?

15 A. I have not heard that term in this
16 connection.

17 Q. Okay. Have we finished number three?

18 A. No.

19 Q. Okay.

20 A. I would then want to look at the
21 stability of the model through time. Maybe it
22 tells me wonderful things about 1987 and wonderful
23 things about lots of different populations in 1987,
24 lots of different samples, but does it tell me
25 anything about 1995.

1 Then the final part of number three
2 would be the extent to which the model can transfer
3 or be transferred with appropriate adjustments to a
4 population that's dramatically different from the
5 one on which it was built.

6 Q. I take it that's going to be one of the
7 four, five, or six coming up, the NEMIS population
8 is dramatically different?

9 A. From the Mississippi Medicaid
10 population.

11 Q. We will get to that?

12 A. Yes.

13 Q. Extent to which model can be
14 transferred to or be something --

15 A. Transferred or modified so that it can
16 be transferred to be used with a very different
17 population.

18 Q. Do you know whether or not the NEMIS
19 population included individuals on public aid?

20 A. It did. Yes, I know. It did.

21 Q. Okay. I'm just asking.

22 Are we finished with number three?

23 A. I think pretty much.

24 Q. All right. How many more do we have to
25 go?

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1 A. Two or three more.

2 We have already made passing reference
3 to these earlier. I guess these in some sense
4 could be categorized.

5 The extent to which the smoking
6 attributable fractions are applied to expenditures
7 which while in the Medicaid box are not
8 expenditures for medical care services that vary
9 with population, disease, et cetera.

10 For example, DISH, and the Medicare
11 buy-ins which are fixed numbers that do not
12 escalate with respect to actual medical expenditure
13 experience.

14 Q. Would that have to do with maybe
15 projecting forward and things of that nature?

16 A. I'm sorry?

17 Q. Projecting forward and determining the
18 cost?

19 A. No. This is not with the forecasting.
20 This is saying that if a requirement of the
21 Medicaid -- federal Medicaid program is that states
22 have to pay the part B premium for Medicare, given
23 that the part B premium is not higher or lower
24 because of any smoking attributed conditions, but
25 is, in fact, fixed by a statutory scheme, and that

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1 the state would be paying it whether anybody smoked
2 or anybody didn't smoke, that smoking attributable
3 fraction should not be applied to the buy-in
4 amounts or similar argument the DISH amounts.

5 Q. DISH amounts are to help compensate the
6 Charity Hospitals for indigent care they provide?

7 A. Yes.

8 Q. And don't recover via Medicaid?

9 A. Because they are providing services to
10 non-Medicaid people.

11 Q. It helps them cover their uncompensated
12 care?

13 A. Correct.

14 Q. Those medical services are provided,
15 they just don't get compensated for them to some
16 extent?

17 A. Yes.

18 Q. DISH helps come in and compensate them
19 for that care?

20 A. That's generally the policy and intent
21 of the mechanism.

22 Q. The extent to which SAFs are applicable
23 to expenditures that you say are not higher or
24 lower because of smoking?

25 A. That are not for direct services to

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1 Medicaid patients.

2 Q. Okay. DISH being one, premiums fixed
3 by Medicare?

4 A. Medicare buy-in.

5 Q. Number five?

6 A. Number five would -- these are not in
7 any particular order.

8 Number five would be needing to know --

9 Q. What are you looking at?

10 A. The Miller report.

11 Q. Okay.

12 A. Needing to know what is going on in the
13 forecast portion of the Miller report.

14 Q. What do you mean?

15 A. There is very general language that
16 forecaster developed from some kind of historical
17 trends.

18 Q. You're not saying it's wrong, you just
19 don't know enough on what he did?

20 A. I don't know what he did and the report
21 doesn't tell me, and I don't understand why the
22 report says in Mississippi Medicaid expenditures
23 declined between '95 and '94. I don't know why --

24 Q. Did you look to the Mississippi
25 Medicaid documents to determine that?

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1 A. I can't find anything like that in the
2 Mississippi Medicaid reports.

3 I don't know why he thinks that
4 hospital expenditures will go up 2.7 percent per
5 year and mandatory care expenditures will go up
6 17.2 percent per year.

7 Q. You just don't know how he did that?

8 A. That doesn't match with realities that
9 I know about.

10 Q. How much do you think they will go up?

11 A. Hospital expenses may go up more than
12 2.7, and the others less than 17.

13 Q. As far as hospital expenses, he could
14 be conservative on that estimate?

15 A. He might be. The methodology just
16 leaves me puzzled.

17 Q. On the forecasting?

18 A. On the forecasting. I can't replicate
19 his Medicaid numbers from historical Mississippi
20 reports. Apparently some small adjustments that
21 have been made.

22 Q. Have you looked at the HCFA 64 reports?

23 A. I know HCFA 64 reports made some
24 adjustments.

25 Q. Have you looked at them for

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1 Mississippi?

2 A. I have looked at selected ones.

3 Q. How many have you look at?

4 A. Probably looked at four.

5 Q. That really went to Paragraph 8 of your
6 disclosure statement. Have we covered that now?

7 A. No. That does not cover 8.

8 Q. Forecast, not enough information how he
9 forecasted to determine whether it was right,
10 wrong, or indifferent. Is that right?

11 A. Right.

12 The extent to which the -- we talked in
13 part about the longitudinal vitality of the model.
14 The extent to which working off of a particular
15 year allows us to predict other years, whether or
16 not the model has, in fact, been appropriately
17 adjusted for changes in the Medicaid program itself
18 through time.

19 Q. Does that have anything to do, or could
20 it have anything to do with the smoking prevalence
21 over time?

22 A. Well, that's another separate
23 question. First issue is the extent to which there
24 are services covered in some years that are not
25 covered in other years. That covers treatment for

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1 things that are or are not smoking attributable.
2 The extent to which different populations are in
3 the covered population if only because the law has
4 changed thereby changing since different pieces of
5 the population have different smoking prevalences,
6 does it adjust for the fact that at different times
7 we have different mixes of people in the Medicaid
8 program.

9 Q. So five was forecasting. Six was
10 what?

11 A. Other factors effecting the
12 applicability of the model through time.

13 Q. What is that called in economics?

14 A. If I wanted to put a technical term on
15 it, I suppose it would be longitudinal vitality.

16 Q. Okay.

17 A. Or robustness.

18 Q. All right. Now I heard that one.

19 Next?

20 A. That relates both to the covered
21 services and to the covered population.

22 Q. Because essentially the nuts of it is
23 that you're going to -- you're saying that because
24 services change over time, coverage changes over
25 time, you don't know how this model is going to

1 play out or how good it does?

2 A. I don't know what adjustment he made to
3 the model to account for that.

4 Q. That's very understandable.

5 We are up to number six. Don't give me
6 too many more.

7 A. Another major concern is the --

8 Q. Before we leave six, do you know if he
9 made adjustments?

10 A. There's nothing in his report that
11 suggests that he has. That doesn't mean he
12 hasn't. I am waiting to find out.

13 Q. Do you know how statistically
14 significant that would be one way or the other?

15 A. I don't.

16 Q. Would you defer to Dr. Miller on that
17 issue?

18 A. As to whether or not adjustments have
19 been made. As to whether or not they are
20 statiscally significant, I would like to have
21 statisticians indicate whether they are statiscally
22 significant.

23 To the extent, for example, that
24 Medicaid has been adding young people, minors in
25 recent years, and smoking prevalence is lower among

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1 minors than it is among the general population
2 according to Mississippi epidemiologists, then it
3 seems to me that would suggest that there should be
4 adjustment in the SAFs through time. I didn't see
5 that in his report. I saw him using exactly the
6 same every year.

7 Q. Do you know whether it could have been
8 awash between high smoking prevalence in the '70s
9 versus lower smoking prevalence now?

10 A. Is it okay to have too big a number in
11 1995 because you had too small a number in 1972?

12 Q. I'm saying in terms of working at SAFs,
13 if that's a consideration or not?

14 A. It would depend very much on the
15 pattern in which smoking prevalence changed.

16 Q. It's an issue you would like to look
17 at?

18 A. Yes.

19 Q. Have you looked at that?

20 A. No. These are things that I am asking
21 for information to --

22 Q. I understand you're taking your shots
23 at the model. Is that not what we are doing here
24 today? You are critiquing Vince Miller's model?

25 A. These are things that I have no

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1 information at this time have been accounted for.

2 Q. All right.

3 A. A large concern is whatever it is that
4 the model is attempting to do to deal with the
5 institutionalized population.

6 Q. The good old nursing home issue?

7 A. A nursing home issue, certainly.

8 The report indicates that there is some
9 kind of a weighted average of the hospital,
10 ambulatory, pharmacy, other pieces of the model to
11 be applied to long-term care. The report doesn't
12 tell me anything about what those weights are, how
13 they were derived.

14 Q. You're not disagreeing with it, you
15 would simply like more information?

16 A. I would like more information. I am
17 concerned that the different pieces that are being
18 weighted, no one of them looks like nursing home
19 resource use, resource costs.

20 Q. What about if you don't have the data,
21 Dr. Long?

22 A. Then you may be in a situation where
23 you would only be able to speculate.

24 Q. Do you ever speculate in your field?

25 A. The question, I guess, is whether or

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1 not a court would look kindly on speculative data.

2 Q. I think we talked about when you don't
3 have data, you use the best available data you have
4 got. Isn't that right?

5 A. Well, what may be done outside of the
6 legal environment is perhaps not the same thing
7 that would be done in a legal environment.

8 Q. Is this it? The problems with the
9 institutionalized population?

10 A. There are several subpieces to that
11 including the fact that the institutionalized
12 population, Mississippi Medicaid, is again
13 dramatically different from the
14 noninstitutionalized Medicaid population by all of
15 these same measures; gender mix, marital status,
16 racial mix. If you look at the people in the
17 nursing homes in Mississippi Medicaid, they look
18 nothing like the rest of the Mississippi Medicaid
19 population.

20 That raises the whole spectrum of
21 issues from the very beginning --

22 Q. Where did you gain the information?

23 A. MMIS and MDS+.

24 Q. You looked at MMIS and MDS?

25 A. Yes.

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1 Q. Were those tapes reliable?

2 A. They have some miscoding, some of which
3 we were able to correct for the cross match in ID
4 numbers between MMIS and MDS+.

5 Q. Was there smoking information on the
6 MDS+?

7 A. I don't remember right off the top of
8 my head.

9 My best recollection is that they did
10 not. We have other smoking prevalence data that I
11 saw in Dr. Courier's deposition, and in the
12 exhibits thereto.

13 Q. Talking about for Mississippi?

14 A. Mississippi.

15 Q. Can you apply that smoking prevalence
16 when you're doing these?

17 A. Not in a precise way, but you look at
18 the characteristics of the nursing home population
19 which is clearly predominantly over the age of 65
20 where you have generally lower smoking prevalence.
21 Predominately female where you have lower smoking
22 prevalence. Much less African American which in
23 the case of males would mean lower smoking
24 prevalence, so that the characteristics that you're
25 looking at there of that population are all the

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1 characteristics that for all persons of those
2 characterizations are associated with lower rates
3 of smoking prevalence.

4 You also see the majority of persons in
5 nursing homes for the Medicaid population are there
6 for conditions that are related to mental
7 impairment, dementia, et cetera, and, you know,
8 those conditions are not on the surgeon general's
9 lists.

10 You also see in the nursing home
11 population persons who have been married or -- but
12 are largely widowed, and persons in those
13 categories, we look at the marital status data also
14 have lower smoking prevalence. There's a number of
15 factors there that that population, that portion of
16 the Medicaid population is very different from the
17 rest of the Medicaid population. Also very
18 different from the categories of medical
19 expenditures for the rest of the population.

20 If you look at hospital expenditures,
21 if you look at ambulatory care expenditures,
22 medication expenditures, you don't see proportions
23 of the money being spent on room and board and
24 support for activities of daily living, and
25 entertainment expenses and the kind of things we

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1 are really paying for in the nursing home
2 population.

3 Q. Have we finished with the
4 institutionalized deal?

5 A. I think I have touched on most of the
6 things that would be included in the concerns about
7 the model's approach to assigning SAFs for
8 long-term care.

9 Q. Are you looking for a perfect model,
10 Dr. Long?

11 A. The --

12 Q. Is there such a thing as a perfect
13 model?

14 A. Not to my knowledge.

15 Q. Have you ever produced a perfect
16 model?

17 A. No.

18 Q. Is that the extent of your testimony
19 concerning the Vince Miller model?

20 A. Well, I would expect that I will be
21 learning a great deal more about Dr. Miller's model
22 as that information becomes available.

23 Q. It's available. You have it. You have
24 got the report.

25 A. That's what I have. I have the report

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1 that excludes information on all those things I
2 just talked about. I would expect there will be
3 more information about that model from --

4 Q. Talking about reviewing his deposition?

5 A. Yes. Which I have not seen.

6 I would be surprised if there wasn't
7 information in the deposition not directly
8 contained in the report. There may be testimony at
9 trial that will disclose new information that I
10 haven't previously seen. I would expect to take
11 any and all of that into account.

12 Q. Have you looked at the historical
13 evolution of the Vince Miller model?

14 A. No, I have not.

15 Q. Would that be important to you in terms
16 of the critiques already leveled at the model and
17 whether or not the critiques were corrected for?

18 MR. HELMS:

19 Whose critiques?

20 BY MR. YOUNG:

21 Q. Anyone's.

22 A. I have not seen anybody's critiques. I
23 would certainly hope that whatever the content of
24 critiques may be as well as the kinds of concerns
25 that I have been talking about would be addressed.

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1 Q. Does the Miller model incorporate any
2 Mississippi specific information?

3 A. It incorporates several pieces of
4 Mississippi specific information. The U.S. data,
5 the unpronounceable acronym.

6 Q. BRFSS? I say it. Everybody doesn't.

7 A. As well as current population survey,
8 that portion of population data.

9 Q. Are you going to testify in any way as
10 to accuracy or reliability of that survey data?

11 A. I haven't been asked to do that.

12 Q. Have you ever used any of that survey
13 data?

14 A. I have used current population survey
15 data.

16 Q. You used that?

17 A. Yes.

18 Q. What capacity?

19 A. Presentations, citing the data.

20 Q. You generally find it reliable?

21 A. Like all survey data, it is not
22 perfect.

23 Q. You find it reliable enough to cite it?

24 A. Reliable enough to cite it.

25 Q. What else have you used?

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1 That was a bad question.

2 You never used the tobacco use
3 supplement?

4 A. No.

5 Q. Have you used the behavioral risk
6 factor survey?

7 A. I have not.

8 Q. Do you know any other ways that Dr.
9 Miller has put in Mississippi specific
10 information?

11 A. No, I don't.

12 Q. Is that important to you?

13 A. Well, let me back up. Obviously he
14 used Mississippi specific information with respect
15 to expenditures.

16 Q. Do you know whether or not any of the
17 NEMIS population were Mississippi residents?

18 A. I believe a few were.

19 Q. We already covered the ground that some
20 of the NEMIS population was public aid?

21 A. Yes.

22 Q. How does the Mississippi Medicaid
23 population different from the NEMIS population?

24 Better yet, let me get straight to the
25 chase.

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1 How does the Mississippi Medicaid
2 population differ from the public aid recipients in
3 NEMIS?

4 A. I don't know.

5 Q. Have you looked at that?

6 A. No, I have not.

7 Q. Do you think that's important?

8 A. If Dr. Miller's model were built only
9 on the public aid recipients and the NEMIS data
10 set, then that would be important to look at.

11 Q. Generally how does the Mississippi
12 Medicaid population differ from the NEMIS
13 population?

14 A. If we look at the part of NEMIS that
15 was directly used by Dr. Miller which is persons 18
16 or older with medical expenditures not
17 institutionalized and look at that same cohort from
18 Mississippi Medicaid.

19 Q. You have done that, right?

20 A. Yes.

21 Q. These reports are produced to us?

22 A. They are.

23 For example, if we were looking at
24 gender, the Mississippi Medicaid population is 60
25 percent less white, 485 percent more African

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1 American. If we were looking at gender, it's 50
2 percent less male and 39 percent more female.

3 If we were looking at age distribution,
4 18 to 35, there's 26 percent higher representation
5 of that age group in the Medicaid population. 35
6 to 65, 40 percent lower. Over 65, 49 percent
7 higher. That's exactly what you would expect given
8 the definition of Medicaid eligibility.

9 If we were to look just at the people
10 over the age of 65 noninstitutionalized, if we look
11 at racial characteristics, 62 percent less white,
12 538 percent more black. Gender, 38 percent less
13 male, 26 percent more female.

14 The young/old, 65 to 75, 29 percent
15 less in the Medicaid population. Old/old, 85 or
16 older -- I mean 85 or older, 164 percent more in
17 the Medicaid population.

18 Those kinds of differences show up in
19 all the cross tabs and subcategories, and we see
20 the same order of magnitude differences, only more
21 dramatic when you start talking about the
22 institutionalized Medicaid population versus
23 noninstitutionalized NEMIS.

24 Q. That's all in the report?

25 A. Yes.

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1 Q. Let me ask you this. Why does that
2 matter?

3 A. It matters for several kinds of
4 reasons. First of all, the smoking prevalence in
5 these different categories which the
6 epidemiologists have testified to is dramatically
7 different. So that if we say, okay, here's a
8 smoking attributable fraction based on a NEMIS data
9 set which is mostly white and fairly well balanced,
10 and with a normal population age distribution, and
11 then we go to the Mississippi Medicaid which is
12 mostly black and mostly not in the age groups with
13 highest smoking prevalence, and much more female,
14 and apply smoking attributable fraction that we
15 developed from the NEMIS data set, we are putting
16 in a population that will have a very, very
17 different smoking prevalence, very, very different
18 mix of medical conditions, very, very different set
19 of co-morbidities or parallel risk factors.

20 We know the population is poorer. We
21 know it's less well educated, and we know it's more
22 minority. All of those things have independently
23 been shown to be associated with higher medical
24 expenditures. We have higher medical expenditures
25 on the one hand and lower prevalence of smoking on

1 the other, yet we are supplying smoking
2 attributable fractions developed from a population
3 where that is not true.

4 Q. You know it's not true?

5 A. Through demographic characteristics.

6 Q. Where are you getting your smoking
7 prevalence for the smoking Medicaid population in
8 Mississippi?

9 A. The testimony from Dr. Courier. The
10 exhibits attached to that deposition.

11 Q. It actually had smoking prevalence on
12 the Mississippi Medicaid population?

13 A. No. For these demographic groups.

14 Q. Within the State of Mississippi?

15 A. Within the State of Mississippi which
16 are substantially overrepresented in the Medicaid
17 population.

18 Q. Did you look at any other surveys in
19 Mississippi about the poor, the black, or the
20 indigents regarding their smoking prevalence?

21 A. Other than the ones that have been
22 produced, no.

23 Q. Did you make inquiries if there was any
24 other information?

25 A. No, sir.

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1 Q. You think that might be important?

2 A. Additional information is always
3 valuable. I have no reason to think the
4 information produced is not -- cannot be relied
5 upon.

6 Q. Did you make these same kinds of
7 distinguishing factors between the population of
8 state employees on the insurance program and the
9 NEMIS?

10 A. No, I did not.

11 Q. Do you plan to do that?

12 A. I haven't been asked to do that.

13 Q. What about for the people receiving
14 indigent care at Charity Hospitals?

15 A. I haven't been asked to do that, and I
16 have not done it.

17 Q. You're really focused in on Medicaid,
18 aren't you?

19 A. Yes, sir.

20 Q. That's what you plan to testify about,
21 don't you?

22 A. That's my expectation at this time.

23 Q. All these comparisons of the NEMIS to
24 Mississippi Medicaid population, where did you get
25 the demographics on the Mississippi Medicaid

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1 population?

2 A. In the data sets.

3 Q. In the MMIS?

4 A. MMIS and MDS+.

5 Q. Did you look at the 2082 forms at all?

6 A. Not for this purpose.

7 Q. These were things you produced today.

8 I will go ahead and get you to mark those as the
9 next three exhibits to get you to identify those
10 for me generally.

11 Could you tell me what those are? I
12 guess she has them in order. Exhibit #10, Exhibit
13 #11, Exhibit #12. Generally tell me what they
14 are.

15 A. Exhibit #12 is further run-off of the
16 MMIS database for 1965. This is --

17 Q. For 1965.

18 A. I'm sorry.

19 Q. I know. We're getting close.

20 A. 1995.

21 Which in addition to the race and
22 gender and age distributions which I think are also
23 contained in the documents you already have add to
24 that a cross tabulation of between race and gender
25 for this subset of the Medicaid population which is

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1 age 65 or older, and there are two subgroups
2 there. Those who do have long-term care claims and
3 those who do not.

4 Q. Okay.

5 A. Exhibit #11 -- I'm working backwards.

6 Exhibit #11 is a more detailed cut at
7 the MMIS data set showing the age distribution
8 rather than by the broad categories that we
9 previously have done, vital statistics age
10 groupings with cross tabs, then by race and gender
11 and sex, and then some cross tabs between gender
12 and race attached to that.

13 Q. All right.

14 A. Exhibit #10, counting down, is just a
15 run that I did off of the recently released 1995
16 national medical expenditures that showed the
17 distribution of expenditures in the population as a
18 whole compared to the Medicaid population as a
19 whole nationally for type of medical care service
20 used. The difference in that percentage
21 distribution.

22 Q. All right. You produced several
23 analyses. I assume these are all cross-sectionals
24 of the NEMIS data or MMIS data?

25 A. For the MDS+ data, yes.

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1 Q. They are for your purposes to do
2 comparisons between the population on NEMIS and the
3 population on Medicaid?

4 A. That's correct.

5 Q. Could you identify that for me,
6 please?

7 A. This is a spread sheet that we produced
8 in June of 1996.

9 Q. For the record, that's Exhibit #13.

10 A. I'm sorry.

11 That tried to do some rough estimates
12 for a particular fiscal year, namely 1993.
13 Information that came from both the Mississippi
14 annual report and the Kaiser commissions report of
15 individual state data as to which kinds of
16 Mississippi Medicaid expenditures might be
17 unrelated to smoking.

18 Q. What do you mean unrelated to smoking?

19 A. Of the -- of all of the cross tabs on
20 the data -- in other words, how much money did we
21 spend on pregnant women, or how much money did we
22 spend on nurse mid wife services or whatever. As
23 you went through the categories of eligibles and
24 the categories of services, were there ones which
25 were the high degree of probability were for people

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1 or for services where those costs are likely to be
2 unrelated to smoking.

3 Q. How did you make that determination?

4 A. It was judgment call that a significant
5 part of these payments were, for example, the easy
6 one is Medicare Part A and B buy-in. That's what
7 it is. Eyeglasses.

8 Q. Is that for a year?

9 A. Yes. One year.

10 Q. What year?

11 A. 1993. Eyeglasses, not a smoking
12 related condition. Mental retardation, not a
13 smoking related condition.

14 Q. How do you know it's not a smoking
15 related condition?

16 A. It's not on the attorney general -- the
17 surgeon general's list as a smoking related
18 condition.

19 Q. You accept the surgeon general's list?

20 A. For the purposes of preparing this
21 little exercise. This is not something that we
22 have done anything further with. Just a sort of
23 ballpark what kinds of things might be excludable
24 on their face.

25 Q. All right. What percentage of the

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1 total medical expenditures for 1993 do the
2 unrelated smoking expenditures comprise?

3 A. What percentage do these things on this
4 list comprise of the grand total?

5 Q. Yes. Of total Medicaid expenditures,
6 not administrative costs.

7 A. Somewhere between 33 and 49 percent.

8 Q. Is it your understanding that 50
9 percent of the costs that are not represented by
10 those are debateable as to whether or not they are
11 attributable to smoking?

12 A. One could presumably argue that some
13 portion of the remainder could be attributable to
14 smoke.

15 Q. Some portion in 1993 anyway of anywhere
16 from 62 percent to -- you tell me the numbers.

17 A. Roughly 50 to 65 percent could have
18 been smoking related.

19 Q. A portion of those costs could be
20 smoking?

21 A. Could have smoking related things in
22 them.

23 Q. Do you have an idea of what the smoking
24 attributable expenses would be in the Mississippi
25 Medicaid program?

1 A. No.

2 Q. Are you going to comment on Dr. Oster's
3 report?

4 A. I would expect that if that report is
5 used that I might very well be asked to comment on
6 the applicability, again, of where the model came
7 from to Mississippi Medicaid.

8 Q. Do you know what assumptions went into
9 his underlying methodology?

10 A. I don't know all of those underlying
11 assumptions. I know that we are using -- he is
12 using data from California and applying that to
13 Mississippi.

14 Q. Do you have any reason to question
15 whether or not smoking causes low birth weight
16 babies?

17 A. I have no reason to question that one
18 way or the other. It may be a contributing
19 factor. It probably is almost certainly not the
20 only contributing factor.

21 Q. Would you turn to Paragraph 8? Have
22 you read that?

23 A. Yes.

24 Q. Tell me what you mean by it. What
25 changes do you envision of the Medicaid program?

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1 A. If I had a crystal ball, I could tell
2 you what would happen, but I can't tell you the
3 kind of things that are under consideration, and
4 all of this has to do with the political
5 environment in which the Medicaid program operates.

6 Q. Are you speculating on what changes may
7 or may not come?

8 A. I am saying there will almost certainly
9 be significant changes made to the Medicaid program
10 in conjunction with the overall stated goal of both
11 political parties to reach a balanced budget by the
12 year 2002, and given that everybody on both sides
13 of the aisle, the National Governors Association,
14 the White House are all proposing changes to the
15 Medicaid program, that it is highly likely there
16 will be changes to the Medicaid program which may
17 be more Draconian or less Draconian and will be
18 more significant as we move toward trying to reduce
19 the deficit. There have been Draconian proposals.

20 Q. Such as eligibility?

21 A. Such as repealing Title 19 and
22 replacing it with block grants. Proposals which
23 would completely turn the system around and do
24 different things. Repeal of DISH, repeal of Borne
25 Amendment, let the states individually define

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1 disability instead of having the Secretary of
2 Health and Human Services define it. The governors
3 want to take treatment of EPDST. I said that
4 wrong. EPSDT. We have voucher proposals. We have
5 the White House wanting to put a per capita cap.

6 Q. Have any of those -- Are you finished?

7 A. There are more. Terminate the existing
8 law expansion to eligibility for children, give the
9 states individual authority over qualifications,
10 and standards and rates paid for providers without
11 limit. That's just a sampling of the kinds of
12 things that are being considered, some of which
13 have been introduced. The voucher stuff, the
14 Kennedy/Hatch legislation that's been dropped in
15 the hopper.

16 There's tremendous number of things out
17 there, some subset or amalgamation of which are
18 likely to be adopted. I can't tell you which
19 ones. That would be speculative. What we are
20 saying is that there is a high likelihood of
21 sufficiently significant changes to this program
22 over the next few years to make it exceptionally
23 difficult to extrapolate from historical
24 expenditures the future.

25 Q. Do you think the states will in some

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1 capacity be caring for their indigent population in
2 terms of health care regardless of the changes in
3 Medicare?

4 A. Someone will be caring for the
5 indigent. I would expect the states would continue
6 to have a significant role in that. The federal
7 government might find some other mechanism for
8 doing it in the Spirit of Philadelphia this week.
9 We might see pressures on the private sector to do
10 it. A whole variety of things which could happen.

11 Q. Have any of the issues or ideas you
12 just espoused been passed into law?

13 A. No. Some of these ideas shut down the
14 government last year.

15 Q. Have any of them been passed?

16 A. No.

17 Q. Are currently any of them set to be
18 made into law or passed into law or take effect
19 next year?

20 A. As of this time, no legislation has
21 occurred.

22 Q. So none of those have got any time set
23 at least to the year 2000 that these have
24 been -- the federal government has required that
25 any of these be implemented as we sit here today?

1 A. As we sit here today, none of these are
2 the law.

3 Q. I didn't see in the documents you
4 produced to me the report by Jerry Oster. Did I
5 just overlook that?

6 A. It's a deposition.

7 Q. You haven't looked at his actual
8 report?

9 A. I have not seen his actual report.

10 Q. You have not gone through his
11 methodology?

12 A. No.

13 Q. You're not prepared to give opinions
14 critiquing Oster or the assumptions?

15 A. Other than what I have seen in the
16 deposition at this point in time, I haven't
17 analyzed that.

18 Q. Give us two minutes.

19 (A break was taken.)

20 BY MR. YOUNG:

21 Q. You sat here, and apparently you and
22 Cynthia, Ms. Howlett-Willis, y'all sliced and diced
23 the NEMIS and MSIS data, and you have drawn
24 comparisons, whatever, you looked at the
25 differences between the two populations.

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1 Did you find any that were alike in any
2 respects? Did you look at that? That's two
3 questions.

4 Did you look to see if there were any
5 situations in which they were alike?

6 A. Let me just double-check. A couple of
7 places where the differences were small.

8 Q. When you're looking at that, you look
9 like you have a condensed version of something.

10 A. These are the same documents that you
11 received. I added some Post-its to be able to find
12 different documents.

13 Q. These are all in --

14 A. 100 percent of these were produced.

15 In some of the small categories --

16 Q. Tell me which one you're referring to.

17 A. We had marital information in NEMIS and
18 we had marital information in MDS+, and in some of
19 the small categories like separated and divorced.
20 The differences are small.

21 Q. Can you name those categories?

22 A. The separated and divorced categories
23 and marital status between the MDS+ which is
24 nursing home residents over the age of 65 and the
25 NEMIS data set for 65 and older with medical

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1 expenses which excludes nursing homes. There was
2 very little difference in the small marital
3 categories.

4 As a general proposition, we are
5 looking at differences that range from the 30 to 40
6 percent range up to the hundreds of percentage
7 point differences. Most of the differences -- to
8 respond to your question, most of the differences
9 are large, and certainly for any of the broad
10 categories I can say with a high level of certainty
11 that these are not the same populations.

12 Q. Did you do the same comparisons between
13 the Medicaid individuals and the publicly aided
14 people on NEMIS?

15 A. On NEMIS, no.

16 Q. Could you have?

17 A. I did not have that cut on the NEMIS
18 data.

19 Q. Who is it? Who did you get your cuts
20 from?

21 A. I do not know at this moment whether we
22 have that in our data set, but if it's there we did
23 not do that cut.

24 Q. Can you confer with Cynthia and find
25 out whether you have that?

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1 A. I can.

2 MS. HOWLETT-WILLIS:

3 It's in the data set. We didn't do the
4 cut because we did it on all over 18s with medical
5 expenditures, rather than limiting it to those with
6 public aid because our understanding was that the
7 model had been built on the larger population. I
8 also had some concerns on my initial look at the
9 NEMIS data at the size of the public aid to
10 population to make any projections at that point in
11 time. I have never gone back to it.

12 BY MR. YOUNG:

13 Q. Do you know what the size, Dr. Long,
14 the size of the public aid portion of the NEMIS
15 population was?

16 A. No, I don't.

17 Q. Can you identify that for me, please?

18 A. This is the index for a whole series of
19 bar charts that were also provided that gives more
20 complete descriptions of what's being measured on
21 each of the bar charts.

22 Q. The key to the kingdom?

23 A. Yes. This is Exhibit #14.

24 Q. That represents the comparisons you
25 have done?

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1 A. Yes. This a full description of what's
2 on each of the charts in that packet.

3 Q. I'm glad I found that then. That will
4 make everything a lot easier.

5 A. Each chart has one of these letters and
6 subsets. The numbers so you can look at the letter
7 and the number at the top of the chart and find it
8 in here.

9 Q. I think John played 52 card shuffle
10 with my documents.

11 MR. HELMS:

12 Which John? Don't accuse me. I don't
13 play cards.

14 MR. YOUNG:

15 The Arnold & Porter John?

16 MR. STREETER:

17 That was produced right next.

18 BY MR. YOUNG:

19 Q. This for all intents and purposes is
20 sort of an index to the reports you have generated
21 as far as the cross-sectional comparisons of NEMIS?

22 A. No. No. Not to -- this is not the
23 NEMIS set. There's a set in the documents of bar
24 charts.

25 Q. I have seen those.

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1 A. That's the index to those.

2 Q. Let me ask you this. How come when you
3 broke down the MMIS data into demographics, for
4 instance, you couldn't simply use the 2082
5 reports? Why did you have to use it from the
6 claims data itself?

7 A. If the MMIS data set is an incidence
8 data set. Data entry there was a person with a
9 long-term care claim or not in contrast to the
10 numbers on the 2082 which are cumulative for the
11 year. It would be basically a prevalence data
12 set. It would include all of the -- it would be
13 weighted by the dollar amounts of the claims.

14 Q. How many claims an individual made?

15 A. Right.

16 Q. I see what you're saying.

17 Can you identify that for me, please?

18 A. This is a memorandum from Lewin
19 Associates or Lewin-VHI, to be specific, to a whole
20 collection of attorneys.

21 Q. You obviously received a copy of that,
22 didn't you?

23 A. If it's in the documents that were
24 produced to you, I received a copy of it.

25 Q. Are you relying on that document in any

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1 way?

2 A. No.

3 Q. Who is Lewin?

4 A. Larry Lewin is a well-known health care
5 consultant, Washington based, who has had major
6 engagements in the health care industry for
7 probably 20 years. Has been a major consultant to
8 the State of Florida historically.

9 Q. Can I see that real quick, please?

10 A. Sure.

11 Q. It appears, and if you need to read
12 this, please do. That they have run or calculated
13 the SAMMEC formula for Mississippi and for
14 Minnesota. You read it. Take a few minutes and
15 look at it if you would like.

16 A. I have read it. Not in great depth.

17 Q. What does it appear to you?

18 A. It appears that they --

19 Q. Lewin?

20 A. Right. They did not, in fact, run the
21 SAMMEC model. They looked at the ICD-9 codes for
22 the diagnoses that trigger calculations in the
23 SAMMEC model and asked how many people in each of
24 Mississippi and Minnesota had -- how many Medicaid
25 people in Mississippi and Minnesota had hospital

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1 discharges that included ICD-9 codes that fell in
2 that list.

3 Q. Smoking related ICD-9 codes?

4 A. The ICD-9 codes in the SAMMEC list.

5 Q. Do you know what ICD-9 codes are in the
6 SAMMEC list?

7 A. I don't know that list. I am assuming
8 they are smoking related.

9 Q. Are the results on there?

10 A. Yes. That they found -- do you want to
11 hear about Minnesota or just Mississippi?

12 Q. Mississippi. Minnesota can fend for
13 itself.

14 A. 1987, 7,500 persons had a diagnosis
15 included on the SAMMEC list. This being the lower
16 than the 16,300 persons that had been estimated
17 using the National Hospital Discharge Survey, and
18 the reason they give for the difference in the
19 result is the different age distribution reflected
20 in the original National Hospital Discharge Survey
21 compared to the actual age distribution in the
22 Medicaid.

23 Q. Did you ask to see any of the reports
24 or runs by Lewin in preparation as an expert in
25 this case?

1 A. No, I did not.

2 Q. Let me see that real quick. We may be
3 done.

4 This is what struck me as sort of
5 strange. Maybe you can explain this. Do you see
6 that first paragraph?

7 A. Yes.

8 Q. It says that 7,000 plus had a diagnosis
9 associated with smoking in Mississippi. 4,000 in
10 Minnesota.

11 A. 4,300, yes.

12 Q. What would explain the difference? You
13 have looked at a comparison at Medicaid programs.
14 Is Minnesota's program lower than Mississippi's or
15 smaller?

16 A. I have not looked explicitly at the
17 Minnesota program to know how many people are
18 eligible for Medicaid in Minnesota. It could be a
19 smaller number even though it's a higher population
20 state given the higher per capita nicotine.

21 Q. I figured there may be an explanation?

22 A. I don't know.

23 Q. Are you working with Verhalen? Have
24 you heard of Robert Verhalen?

25 A. No.

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1 Q. Wecker?

2 A. No.

3 Q. Are you providing any services to Mr.
4 Wecker?

5 A. No.

6 Q. How about George Worm?

7 A. No.

8 Q. Do you know him in Baton Rouge?

9 A. No, I don't.

10 Q. Dr. Long, is your opinion in this case
11 going to be that the -- you can not quantify health
12 care costs related to smoking for the Mississippi
13 Medicaid program?

14 A. It will not be my opinion that cannot
15 be done.

16 Q. It's your opinion that it can be done?

17 A. It may very well be possible to do it.

18 Q. Okay.

19 A. I don't know that it has been done or
20 will be done.

21 MR. YOUNG:

22 That's it.

23 (Conclusion.)

24

25

REPORTER'S CERTIFICATE

I, LINDY ROOT, Certified Court Reporter, do hereby certify that the above-named witness, after having been first duly sworn by me to testify to the truth, did testify as hereinabove set forth;

That the testimony was reported by me in shorthand and transcribed under my personal direction and supervision, and is a true and correct transcript, to the best of my ability and understanding;

That I am not of counsel, not related to counsel or the parties hereto, and not in any way interested in the outcome of this matter.

A handwritten signature in cursive script that reads "Lindy Root". The signature is written in dark ink and is positioned above a horizontal dashed line.

LINDY ROOT

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